TOSHIBA

The power to open people's eyes

Owners Manual

SD120/220

Owners Manual

SAFETY PRECAUTIONS

WARNING: **TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.**

CAUTION: This Digital Video Disc Player employs a Laser System.
To ensure proper use of this product, please read this owner's manual carefully and retain for future reference. Should the unit require maintenance, contact an authorized service location - see service procedure.

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure.
Visible and invisible laser radiation when open and interlocks defeated.
DO NOT STARE INTO BEAM.

```
CLASS 1
LASER PRODUCT
```

In the spaces provided below, record the Model and Serial No. located on the rear panel of your DVD video player.

Model No. _____   Serial No. _____

Retain this information for future reference.

The following information applies only to the model for U.K.

General Information

If the socket outlets in your home are not suitable for the plug supplied with this unit, the plug must be cut off and an appropriate one fitted.

The plug severed from this mains lead must be destroyed as it is hazardous if inserted into a live socket.

IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:
BLUE: NEUTRAL
BROWN: LIVE
As the colours of the wires in the mains lead of this unit may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire that is coloured blue must be connected to the terminal in the plug which is marked with the letter N or coloured black.
The wire that is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.
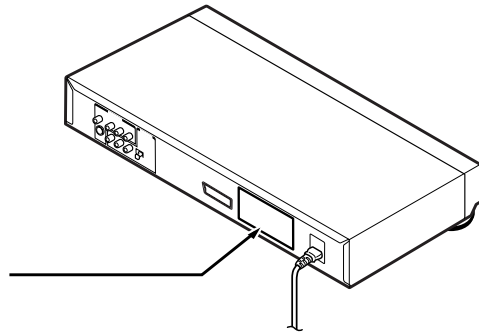
Do not connect either wire to the earth terminal which is marked by the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow.

Use a 5A fuse which is approved by ASTA or BSI to BS1362.
Always replace the fuse cover after changing the fuse.

2

Location of the required label

The rating plate and the safety caution are on the rear of the unit.

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IMPORTANT SAFETY INSTRUCTIONS

CAUTION: **PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS GIVEN IN THIS OWNER'S MANUAL AND THOSE MARKED ON THE UNIT. RETAIN THIS BOOKLET FOR FUTURE REFERENCE.**

This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use and servicing. This unit is fully transistorized and does not contain any parts that can be repaired by the user.
DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

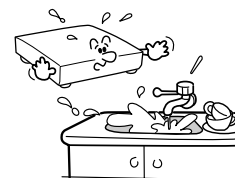1. Read these instructions.
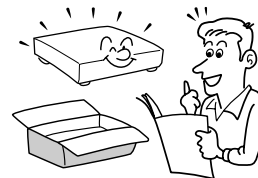
2. Keep these instructions.

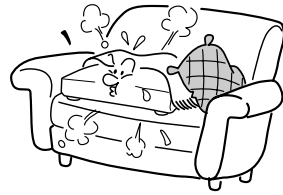3. Heed all warnings.

4. Follow all instructions.

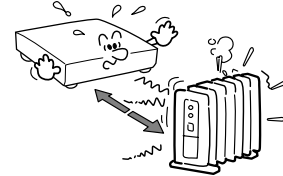5. Do not use this apparatus near water.

6. Clean only with dry cloth.

7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

10. Only use attachments/accessories specified by the manufacturer.

11. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

S3125A

12. Unplug this apparatus during lightning storms or when unused for long periods of time.

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IMPORTANT SAFETY INSTRUCTIONS

13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
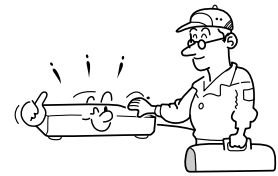
14. When you use headphones, keep the volume at a moderate level. If you use the headphones continuously with high volume sound, it may cause hearing damage.

15. Do not overload wall outlets; extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
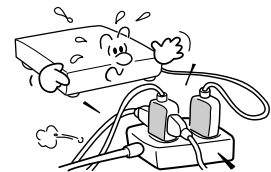
16. Never insert objects of any kind into this apparatus through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the apparatus.

17. Keep your fingers well clear of the disc tray as it is closing. Neglecting to do so may cause serious personal injury.

6
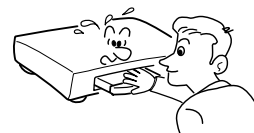
18. Do not place a heavy object on or step on the apparatus. The object may fall, causing serious personal injury and serious damage to the apparatus.
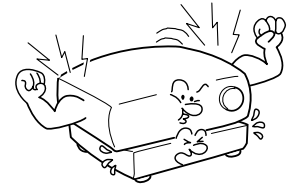
19. Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and apparatus malfunction.

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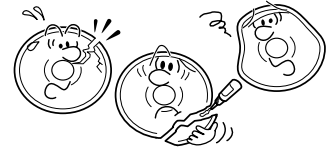
Precautions

Notes on handling

■ When shipping the DVD video player, the original shipping carton and packing materials come in handy. For maximum protection, repack the unit as it was originally packed at the factory.

■ Do not use volatile liquids, such as insect spray, near the DVD video player. Do not leave rubber or plastic products in contact with the DVD video player for a long time. They will leave marks on the finish.

■ The top and rear panels of the DVD video player may become warm after a long period of use. This is not a malfunction.

■ When the DVD video player is not in use, be sure to remove the disc and turn off the power.

■ If you do not use the DVD video player for a long period, the unit may not function properly in the future. Turn on and use the DVD video player occasionally.

Notes on locating

■ Place the DVD video player on a level surface. Do not use it on a shaky or unstable surface such as a wobbling table or inclined stand. The loaded disc may come off the proper position and cause damage to the DVD video player.

■ When you place this DVD video player near a TV, radio, or VTR, the playback picture may become poor and the sound may be distorted. In this case, place the DVD video player away from the TV, radio, or VTR.

Notes on cleaning

Use a soft, dry cloth for cleaning.

● For stubborn dirt, soak the cloth in a weak detergent solution, wring well and wipe. Use a dry cloth to wipe it dry.
   Do not use any type of solvent, such as thinner and benzine, as they may damage the surface of the DVD video player.

● If you use a chemical saturated cloth to clean the unit, follow that product's instructions.

To obtain a clear picture

The DVD video player is a high technology, precision device. If the optical pick-up lens and disc drive parts are dirty or worn down, the picture quality becomes poor. To obtain a clear picture, we recommend regular inspection and maintenance (cleaning or parts replacement) every 1,000 hours of use depending on the operating environment. For details, contact your nearest dealer.

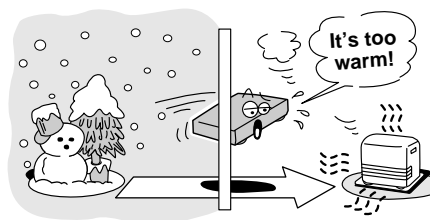## Notes on moisture condensation

Moisture condensation damages the DVD video player. Please read the following carefully.

Moisture condensation occurs, for example, when you pour a cold drink into a glass on a warm day. Drops of water form on the outside of the glass. In the same way, moisture may condense on the optical pick-up lens inside this unit, one of the most crucial internal parts of the DVD video player.
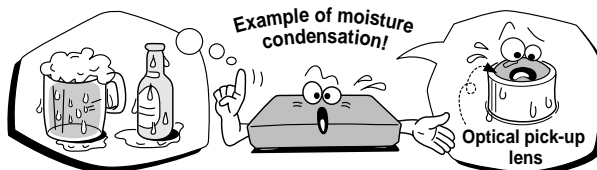

■ **Moisture condensation occurs during the following cases.**

● When you bring the DVD video player directly from a cold place to a warm place.

● When you use the DVD video player in a room where you just turned on the heater, or a place where the cold wind from the air conditioner directly hits the unit.

● In summer, when you use the DVD video player in a hot and humid place just after you move the unit from an air conditioned room.

● When you use the DVD video player in a humid place.

■ **Do not use the DVD video player when moisture condensation may occur.**

If you use the DVD video player in such a situation, it may damage discs and internal parts. Remove the disc, connect the power cord of the DVD video player to the wall outlet, turn on the DVD video player, and leave it for two or three hours. After two or three hours, the DVD video player will have warmed up and evaporated any moisture. Keep the DVD video player connected to the wall outlet and moisture condensation will seldom occur.

Wall outlet

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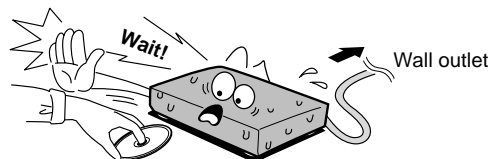
Notes on Discs

On handling discs

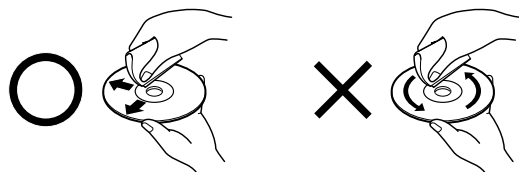● Do not touch the playback side of the disc.

Playback side
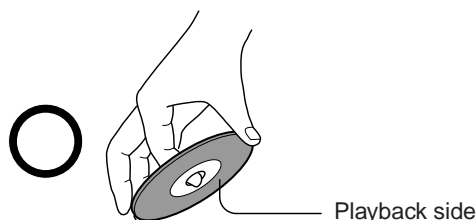
● Do not attach paper or tape to discs.

On cleaning discs

● Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the center outwards with a soft cloth. Always keep the disc clean.

● If you cannot wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth and finish with a dry cloth.
● Do not use any type of solvent such as thinner, benzine, commercially available cleaners or antistatic spray for vinyl LPs. It may damage the disc.
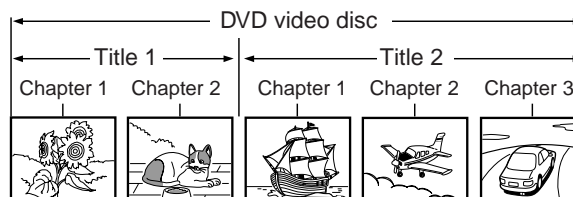
On storing discs

● Do not store discs in a place subject to direct sunlight or near heat sources.
● Do not store discs in places subject to moisture and dust such as a bathroom or near a humidifier.
● Store discs vertically in a case. Stacking or placing objects on discs outside of their case may cause warping.

Structure of disc contents

Normally, DVD video discs are divided into titles, and the titles are sub-divided into chapters. VIDEO CDs and audio CDs are divided into tracks.

DVD video disc

DVD video disc				
Title 1		Title 2		
Chapter 1	Chapter 2	Chapter 1	Chapter 2	Chapter 3

VIDEO CD/audio CD

VIDEO CD/audio CD				
Track 1	Track 2	Track 3	Track 4	Track 5

Each title, chapter or track is assigned a number, which is called "title number", "chapter number" or "track number" respectively.
There may be discs that do not have these numbers.

Notes on copyright

It is forbidden by law to copy, broadcast, show, broadcast on cable, play in public, and rent copyrighted material without permission.

DVD video discs are copy protected, and any recordings made from these discs will be distorted.

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 authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

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*N*otes on Discs (continued)

About this owner's manual

This owner's manual explains the basic instructions of this DVD video player. Some DVD video discs are produced in a manner that allows specific or limited operation during playback. As such, the DVD video player may not respond to all operating commands. This is not a defect in the DVD video player. Refer to instruction notes of discs.

"⊘" may appear on the TV screen during operation. A "⊘" means that the operation is not permitted by the DVD video player or the disc.

Notes on region numbers

The region number of this DVD video player is 2. If region numbers, which stand for their playable area, are printed on your DVD video disc and you do not find 🌐 or 🌐 , disc playback will not be allowed by the player. (In this case, the DVD video player will display a message on-screen.)

On VIDEO CDs

This DVD video player supports VIDEO CDs equipped with the PBC (Version 2.0) function. (PBC is the abbreviation of Playback Control.) You can enjoy two playback variations depending on types of discs.

- **VIDEO CD not equipped with PBC function (Version 1.1)**
  Sound and movie can be played on this DVD video player in the same way as an audio CD.
- **VIDEO CD equipped with PBC function (Version 2.0)**
  In addition to operation of a VIDEO CD not equipped with the PBC function, you can enjoy playback of interactive software with search function by using the menu displayed on the TV screen (Menu Playback). Some of the functions described in this owner's manual may not work with some discs.

Playable discs

This DVD video player can play the following discs.

	Disc Mark	Contents	Disc Size	Maximum playback time
DVD video discs	DVD VIDEO™ / DVD VIDEO™	Audio + video (moving pictures)	12 cm	Approx. 4 hours (single sided disc)
				Approx. 8 hours (double sided disc)
			8 cm	Approx. 80 minutes (single sided disc)
				Approx. 160 minutes (double sided disc)
VIDEO CDs	COMPACT DISC DIGITAL VIDEO	Audio + video (moving pictures)	12 cm	Approx. 74 minutes
			8 cm	Approx. 20 minutes
Audio CDs	COMPACT DISC DIGITAL AUDIO	Audio	12 cm	Approx. 74 minutes
			8 cm (CD single)	Approx. 20 minutes

The following discs are also available.
● DVD-R discs of DVD video format
● CD-R/CD-RW discs of CD-DA or VIDEO CD format
Some of these discs may be incompatible.

- You cannot play discs other than those listed above.
- You cannot play DVD-RAM discs or non-standardized discs, etc., even if they may be labeled as above.
- This DVD video player uses the PAL/NTSC colour system, and cannot play DVD video discs recorded in any other colour system (SECAM, etc.).

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Table of Contents

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Identification of Controls

See the page in ⬡ for details.

Front panel

ON/STANDBY button ⟩26⟩

ON/STANDBY indicator ⟩26⟩

OPEN/CLOSE button ⟩26⟩

Disc tray ⟩26⟩

■ (STOP) button ⟩27⟩

DVD display ⟩13⟩

► (PLAY) button ⟩26⟩

▲/▼/◄/►/ENTER button ⟩48⟩

II (PAUSE) button ⟩27⟩

MENU button

|◄◄/►►| (SKIP) buttons ⟩31⟩

TOP MENU button ⟩30⟩

RETURN button ⟩48⟩

DISPLAY button ⟩44⟩

E.A.M. button ⟩40⟩

Rear panel

When connecting the optical digital cable, remove the cap and fit the connector into the jack firmly. When not using the jack, keep the cap inserted to protect it from dust intrusion.

VIDEO OUT (Y/P_B/P_R) (Component video) jacks ⟩18⟩

BITSTREAM/PCM OPTICAL AUDIO OUT jack ⟩21⟩⟩22⟩⟩23⟩

AC inlet

VIDEO OUT jack ⟩19⟩

AV (SCART) socket ⟩18⟩

BITSTREAM/PCM COAXIAL AUDIO OUT jack ⟩21⟩⟩22⟩⟩23⟩

ANALOG AUDIO OUT (L/R) jacks ⟩18⟩⟩19⟩

Power cord

S VIDEO OUT jack ⟩19⟩

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DVD display

■ **Pressing of the FL DIM button on the remote control changes the brightness of the display.**

FL DIM   Normal ⟶ Dimmed ⟶ Off

Total playing time indicator

Chapter number indicator

Play mode indicator

Memory playback indicator

Title number indicator

Track number indicator

Random playback indicator

Multifunctional indicator (indicates operating status or messages, etc.)

DVD/VIDEO CD/CD indicator

Angle icon indicator

Repeat playback indicator
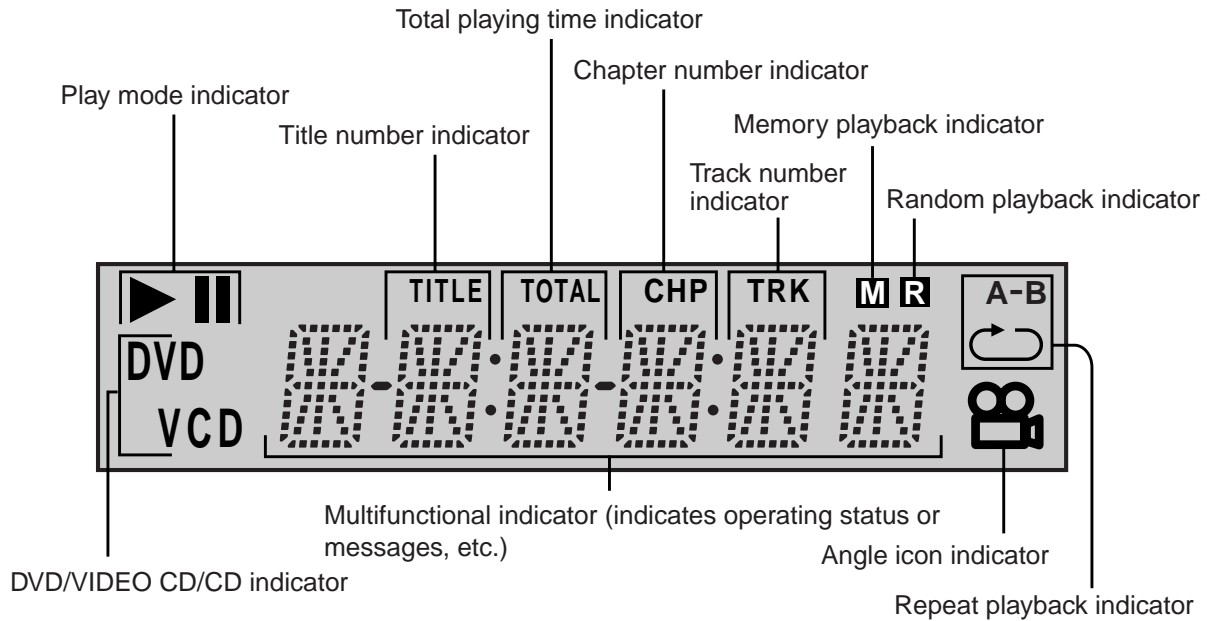
■ **When you start playback, the elapsed time indicators appear. Pressing the FL SELECT button switches them to the title/chapter/track number indicators. Some discs may not permit this operation.**

The indicators vary depending on the kinds of discs you play.

DVD video disc	VIDEO CD	Audio CD
• During playback:	• During playback:	• During playback:
Example	Example	Example
Playing chapter 3 of title 2	**Playing track 6**	**Playing track 6**
Some discs may not display chapter numbers or elapsed time.	Some discs may not display track numbers or elapsed time.	
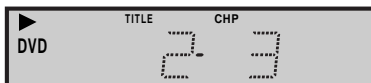
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Identification of Controls (continued)

The instructions in this manual describe the functions on the remote control. See the page in ☐ for details.

Remote control

OPEN/CLOSE button |26⟩

REV button |28⟩

FWD button |28⟩

PAUSE/STEP button |27⟩|28⟩

STOP button |27⟩

TOP MENU button |30⟩

Direction buttons |48⟩
(▲ / ▼ / ◄ / ►)

CLEAR button |31⟩

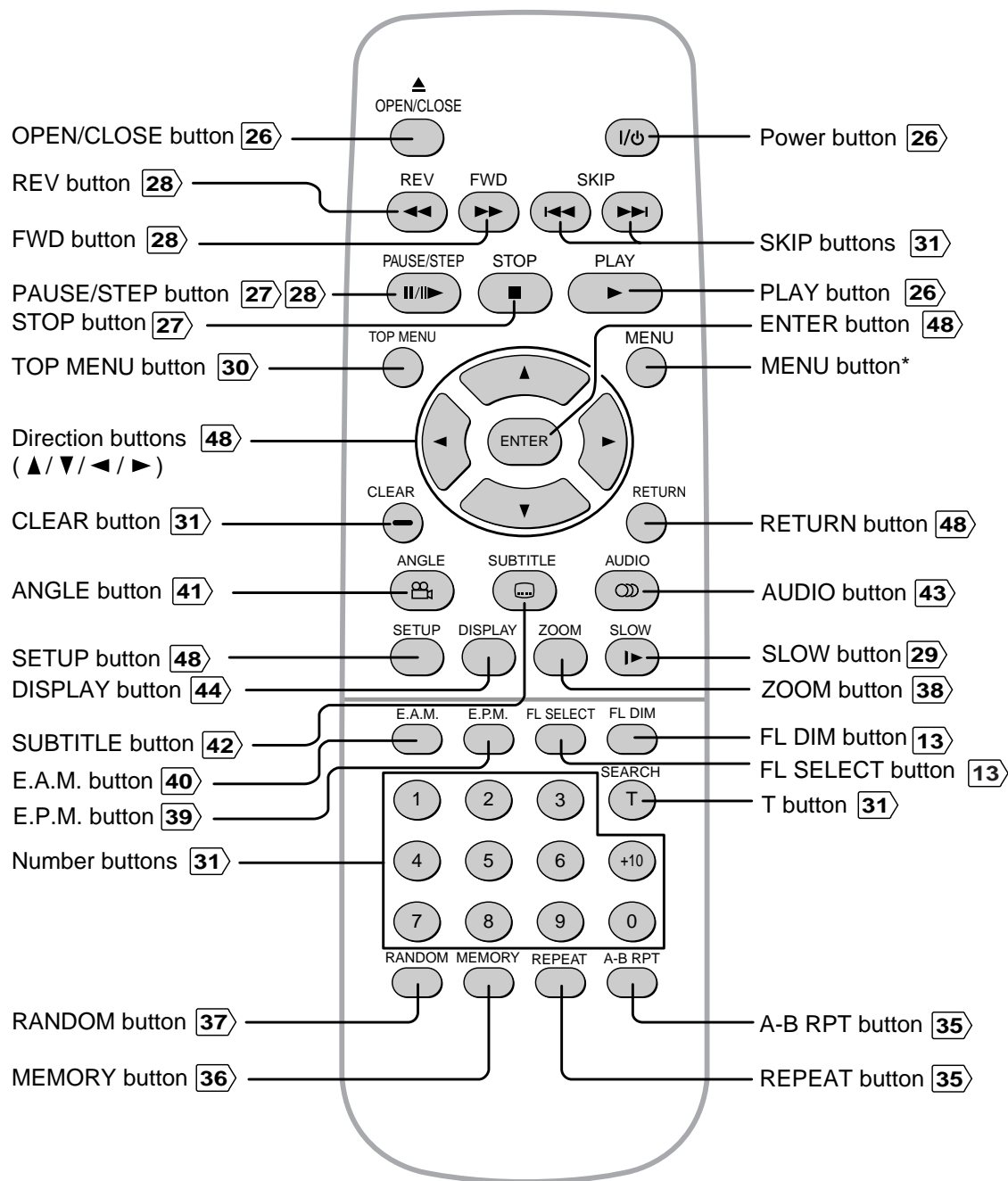ANGLE button |41⟩

SETUP button |48⟩

DISPLAY button |44⟩

SUBTITLE button |42⟩

E.A.M. button |40⟩

E.P.M. button |39⟩

Number buttons |31⟩

RANDOM button |37⟩

MEMORY button |36⟩

▲ OPEN/CLOSE

REV FWD SKIP

PAUSE/STEP STOP PLAY

TOP MENU MENU

ENTER

CLEAR RETURN

ANGLE SUBTITLE AUDIO

SETUP DISPLAY ZOOM SLOW

E.A.M. E.P.M. FL SELECT FL DIM

SEARCH

1	2	3	T
4	5	6	+10
7	8	9	0

RANDOM MEMORY REPEAT A-B RPT

Power button |26⟩

SKIP buttons |31⟩

PLAY button |26⟩

ENTER button |48⟩

MENU button*

RETURN button |48⟩

AUDIO button |43⟩

SLOW button |29⟩

ZOOM button |38⟩

FL DIM button |13⟩

FL SELECT button |13⟩

T button |31⟩

A-B RPT button |35⟩

REPEAT button |35⟩

* **MENU button**
Use the MENU button to display the menu included on many DVD video discs. To operate a menu, follow the instructions in "Locating a title using the top menu."
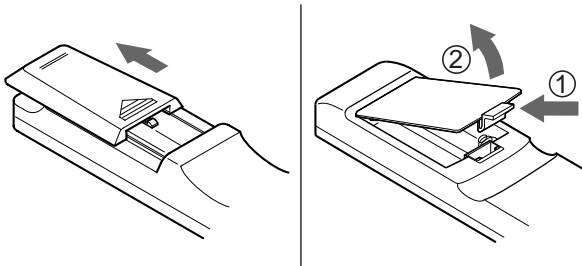|30⟩

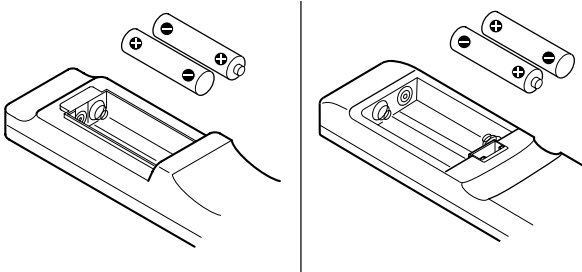■ **About the illustrations of the battery compartment**
There are two types of battery compartment in the supplied remote controls. (This does not mean a difference in performance between the two.)
Refer to either illustration depending on the actual remote control.

Loading batteries

1 **Open the cover.**

2 **Insert batteries (R6 size).**

Make sure to match the + and – on the batteries to the marks inside the battery compartment.

3 **Close the cover.**

Notes on batteries
Improper use of batteries may cause battery leakage and corrosion. To operate the remote control correctly, follow the instructions below.
• Do not insert batteries into the remote control in the wrong direction.
• Do not charge, heat, open, or short-circuit the batteries. Do not throw batteries into a fire.
• Do not leave dead or exhausted batteries in the remote control.
• Do not use different types of batteries together, or mix old and new batteries.
• If you do not use the remote control for a long period of time, remove the batteries to avoid possible damage from battery corrosion.
• If the remote control does not function correctly or if the operating range becomes reduced, replace all batteries with new ones.
• If battery leakage occurs, wipe the battery liquid from the battery compartment, then insert new batteries.

Operating with the remote control

Point the remote control at the remote sensor and press the buttons.

30° 30°
Within about 7 m
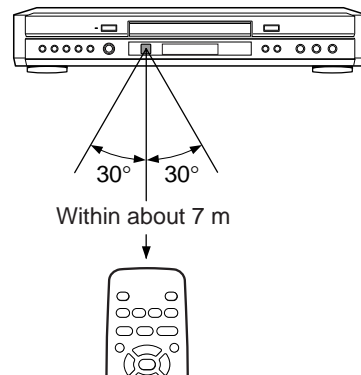
Distance: About 7 m from the front of the remote sensor
Angle: About 30° in each direction of the front of the remote sensor

* Do not expose the remote sensor of the DVD video player to a strong light source such as direct sunlight or other illumination. If you do so, you may not be able to operate the DVD video player via the remote control.

Notes on the remote control
• Direct the remote control at the remote sensor of the DVD video player.
• Do not drop or give the remote control a shock.
• Do not leave the remote control near an extremely hot or humid place.
• Do not spill water or put anything wet on the remote control.
• Do not open the remote control.

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Connections

Read this chapter first to make all necessary preparations.

- ● **Connecting to a TV (Using the SCART socket)**
- ● **Connecting to a TV (Using the component video jacks)**
- ● **Connecting to a TV (Using the phono type jacks)**
- ● **Connecting to an amplifier equipped with a Dolby Digital decoder**
- ● **Connecting to an amplifier equipped with Dolby Pro Logic Surround**
- ● **Connecting to an amplifier equipped with a DTS decoder**
- ● **Connecting to an amplifier equipped with an MPEG2 audio decoder**
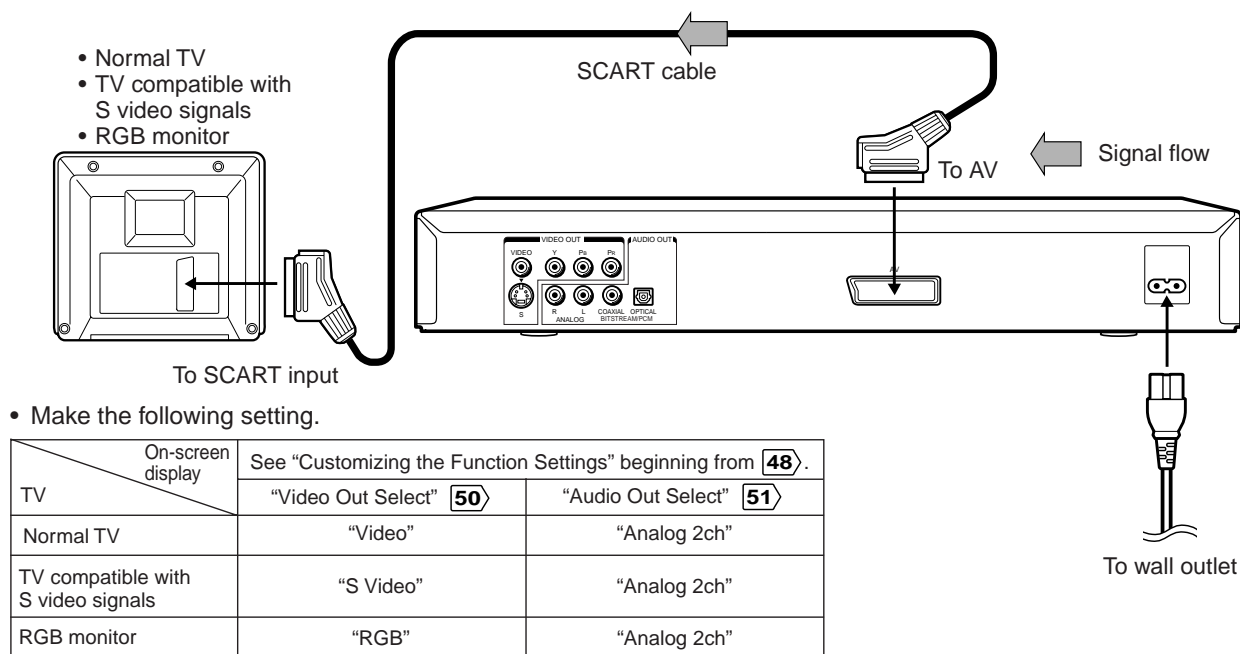- ● **Connecting to an amplifier equipped with a digital audio input**

Connecting to a TV
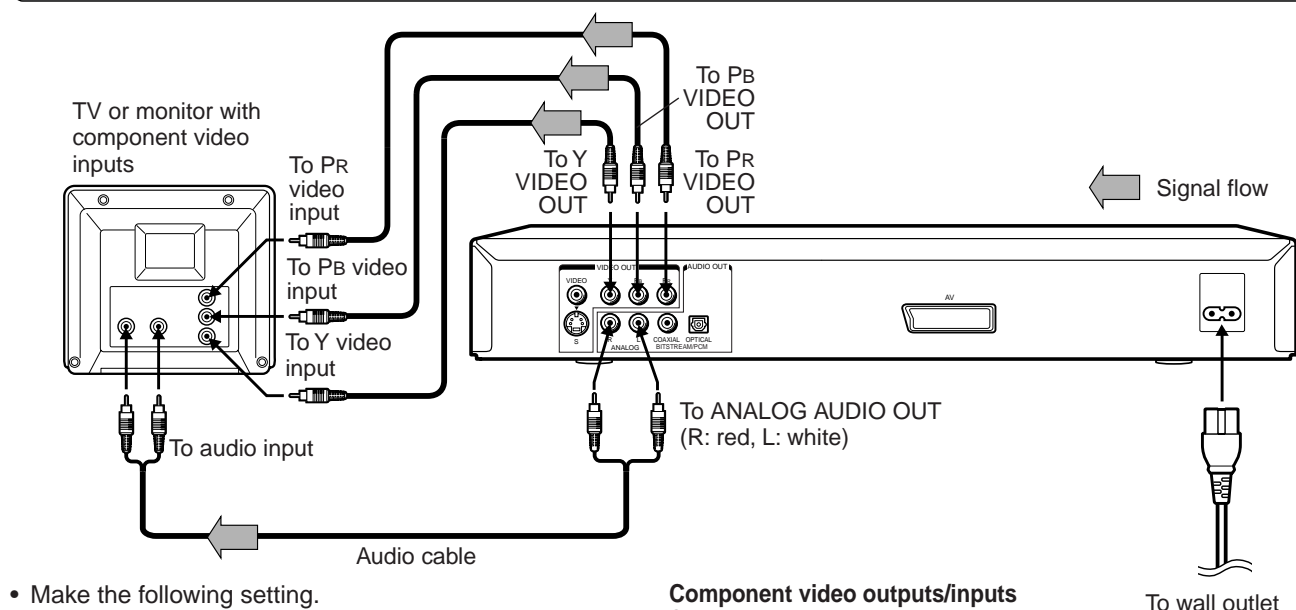
Connect the DVD video player to your TV.

For details of output sound, see $\boxed{43}$.

Connect the DVD video player directly to your TV. If you connect the DVD video player to a VTR, TV/VTR combination or video selector, the playback picture may be distorted as DVD video discs are copy protected.

Connecting to a TV (Using the SCART socket)

• Normal TV
• TV compatible with S video signals
• RGB monitor

SCART cable

To AV

Signal flow

To SCART input

To wall outlet

• Make the following setting.

On-screen display TV	See "Customizing the Function Settings" beginning from $\boxed{48}$.	
	"Video Out Select" $\boxed{50}$	"Audio Out Select" $\boxed{51}$
Normal TV	"Video"	"Analog 2ch"
TV compatible with S video signals	"S Video"	"Analog 2ch"
RGB monitor	"RGB"	"Analog 2ch"

Connecting to a TV (Using the component video jacks)

TV or monitor with component video inputs

To P$_R$ video input

To P$_B$ video input

To Y video input

To audio input

To P$_B$ VIDEO OUT

To Y VIDEO OUT

To P$_R$ VIDEO OUT

Signal flow

To ANALOG AUDIO OUT (R: red, L: white)

Audio cable

To wall outlet

• Make the following setting.

On-screen display TV	See "Customizing the Function Settings" beginning from $\boxed{48}$.	
	"Video Out Select" $\boxed{50}$	"Audio Out Select" $\boxed{51}$
TV or monitor with component video inputs	"Video" or "S Video"	"Analog 2ch"

Component video outputs/inputs
Some TVs or monitors are equipped with component video inputs. Connecting to these inputs allows you to enjoy higher quality picture playback. Actual labels for component video inputs may vary depending on the TV manufacturer. (ex. Y, R-Y, B-Y or Y, C$_B$, C$_R$)
In some TVs or monitors, the colour levels of the playback picture may be reduced slightly or the tint may change. In such a case, adjust the TV or monitor for optimum performance.

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Connecting to a TV (Using the phono type jacks)

■ **Select the connection type depending on the TV. (TV equipped with an S video input / Normal TV)**

TV equipped with
an S video input

Signal flow

VIDEO OUT   AUDIO OUT
VIDEO   Y   PB   PR
AV
ANALOG   COAXIAL   OPTICAL
BITSTREAM/PCM

To audio
input

To S video
input

To S VIDEO OUT

To ANALOG AUDIO OUT
(R:red, L:white)

S video cable

Audio cable

To wall outlet

Normal TV

Signal flow

VIDEO OUT   AUDIO OUT
VIDEO   Y   PB   PR
AV
S   ANALOG   COAXIAL   OPTICAL
BITSTREAM/PCM

To audio
input

To video input
(yellow)

To VIDEO OUT
(yellow)

To ANALOG AUDIO OUT
(R:red, L:white)

Audio/video cable

To wall outlet

• Make the following setting.

	On-screen display	See "Customizing the Function Settings" beginning from 48.	
TV		"Video Out Select" 50	"Audio Out Select" 51
TV equipped with an S video input		"S Video"	"Analog 2ch"
Normal TV		No need to set.	"Analog 2ch"

Notes
• Refer to the owner's manual of the connected equipment as well.
• When you connect the DVD video player to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections.
• If you place the DVD video player near a tuner or radio, the radio broadcast sound might be distorted. In this case, place the DVD video player away from the tuner and radio.
• The output sound of the DVD video player has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate listening level. Otherwise, the speakers may be damaged by a sudden high volume sound.
• Turn off the amplifier before you connect or disconnect the DVD video player's power cord. If you leave the amplifier power on, the speakers may be damaged.
• If your television set has one audio input, connect the DVD video player to a Y cable adapter (not supplied) and then connect to your TV.

19

*C*onnecting to Optional Equipment

You can enjoy high quality dynamic sounds by connecting the DVD video player to optional audio equipment.

- For connection to your TV, see "Connecting to a TV" 18 19 .
- For details of output sound, see 43 .
- This section uses the following reference marks.

▮	: Front speaker
▯	: Rear speaker
▯	: Sub woofer
▮	: Center speaker
⇨	: Signal flow

Notes
- DO NOT connect the BITSTREAM/PCM AUDIO OUT jack of the DVD video player to the AC-3 RF input of a Dolby Digital Receiver. This input on your A/V Receiver is reserved for Laserdisc use only and is incompatible with the BITSTREAM/PCM AUDIO OUT jack of the DVD video player.
- Connect the BITSTREAM/PCM AUDIO OUT jack of the DVD video player to the "OPTICAL" or "COAXIAL" input of a Receiver or Processor.
- Refer to the owner's manual of the connected equipment as well.
- When you connect the DVD video player to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections.
- The output sound of the DVD video player has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate listening level. Otherwise, the speakers may be damaged by a sudden high volume sound.
- Turn off the amplifier before you connect or disconnect the DVD video player's power cord. If you leave the amplifier power on, the speakers may be damaged.

Warning
- When you are connecting (via the BITSTREAM/PCM AUDIO OUT jack) an AV decoder that does not have Dolby Digital, Digital Theater Systems (DTS) or MPEG2 decoding function, be sure to set "Audio Out Select" to "PCM" from the on-screen displays 48 51 . Otherwise, high volume sound may damage your hearing as well as the speakers.
- When playing DTS-encoded discs (DVD video discs and audio CDs), excessive noise may be output from the analog stereo jacks. To avoid possible damage to the audio system, you should take proper precautions when the ANALOG AUDIO OUT (L/R) jacks of the DVD video player are connected to an amplification system. To enjoy DTS Digital Surround™ playback, an external 5.1 channel DTS Digital Surround™ decoder system must be connected to the BITSTREAM/PCM AUDIO OUT jack of the DVD video player.

20

Connecting to an amplifier equipped with a Dolby Digital decoder
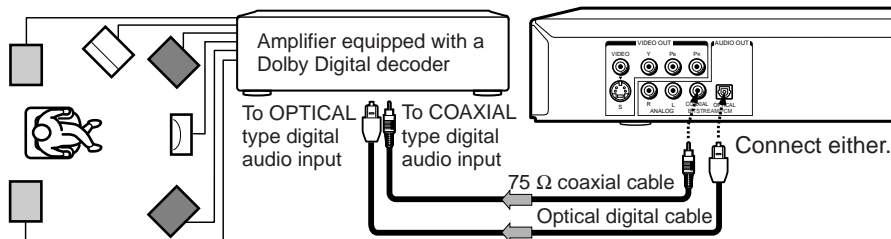
Dolby Digital
Dolby Digital is the surround sound technology used in theaters showing the latest movies, and is now available to reproduce this realistic effect in the home. You can enjoy motion picture and live concert DVD video discs with this dynamic realistic sound by connecting the DVD video player to a 6 channel amplifier equipped with a Dolby Digital decoder or Dolby Digital processor. If you have a Dolby Pro Logic Surround decoder, you will obtain the full benefit of Pro Logic from the same DVD movies that provide full 5.1-channel Dolby Digital soundtracks, as well as from titles with the Dolby Surround mark.

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. ©1992-1997 Dolby Laboratories. All rights reserved.

• Use DVD video discs encoded via the Dolby Digital recording system.
• Make the following setting.

On-screen display	Select:	Page
"Audio Out Select"	"Bitstream"	48 51
Recording system	⫿⫿ D	43

Amplifier equipped with a Dolby Digital decoder

To OPTICAL type digital audio input   To COAXIAL type digital audio input

Connect either.

75 Ω coaxial cable

Optical digital cable

Connecting to an amplifier equipped with Dolby Pro Logic Surround

Dolby Pro Logic Surround
You can enjoy the dynamic realistic sound of Dolby Pro Logic Surround by connecting an amplifier and speaker system (right and left front speakers, a center speaker, and one or two rear speakers).

■ **With an amplifier equipped with Dolby Digital**
Connect the equipment the same way as described in "Connecting to an amplifier equipped with a Dolby Digital decoder." Refer to that amplifier's owner's manual and set the amplifier so you can enjoy Dolby Pro Logic Surround sound.
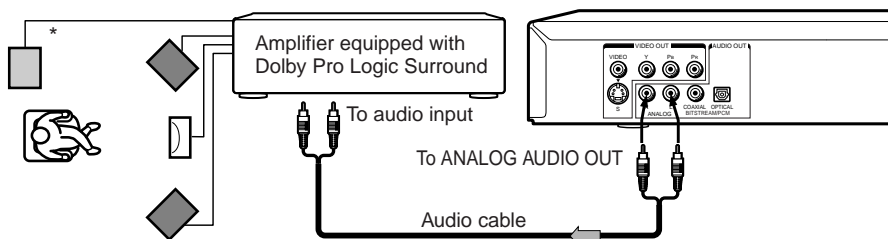
■ **With an amplifier not equipped with Dolby Digital**
Connect the equipment as follows.

• Make the following setting.

On-screen display	Select:	Page
"Audio Out Select"	"Analog 2ch"	48 51

Be sure to set "Audio Out Select" to "Analog 2ch" when you enjoy sounds of Dolby Pro Logic Surround using this connection.

* Connect one or two rear speakers. The output sound from the rear speakers will be monaural even if you connect two rear speakers.

Amplifier equipped with Dolby Pro Logic Surround

To audio input

To ANALOG AUDIO OUT

Audio cable

21

Connecting to Optional Equipment (continued)

Connecting to an amplifier equipped with a DTS decoder
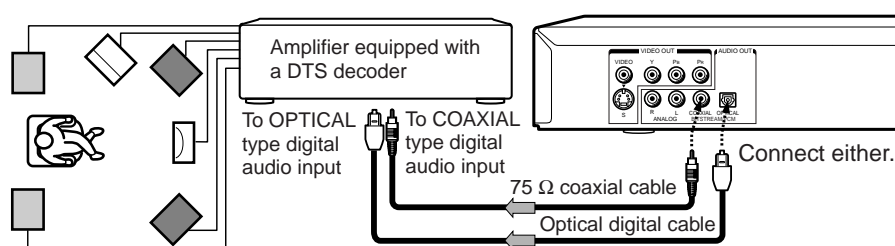
Digital Theater Systems (DTS)
DTS is a high quality surround technology used in theaters and now available for home use, on DVD video discs or audio CDs.
If you have a DTS decoder or processor, you can obtain the full benefit of 5.1 channel DTS encoded sound tracks on DVD video discs or audio CDs.

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

• Use DVD video discs or audio CDs encoded via the DTS recording system.
• Make the following setting.

On-screen display	Select:	Page
"Audio Out Select"	"Bitstream"	48 51
Recording system	DTS	43

Amplifier equipped with a DTS decoder

To OPTICAL type digital audio input   To COAXIAL type digital audio input

VIDEO OUT   AUDIO OUT

Connect either.

75 Ω coaxial cable

Optical digital cable

Connecting to an amplifier equipped with an MPEG2 audio decoder

MPEG2 sound
You can enjoy motion picture and live concert DVD video discs with dynamic realistic sound by connecting an amplifier equipped with an MPEG2 audio decoder or MPEG2 audio processor.

• Use DVD video discs encoded via the MPEG2 recording system.
• Make the following setting.

On-screen display	Select:	Page
"Audio Out Select"	"Bitstream"	48 51
Recording system	MPEG	43

Amplifier equipped with an MPEG2 audio decoder

To OPTICAL type digital audio input   To COAXIAL type digital audio input

VIDEO OUT   AUDIO OUT

Connect either.

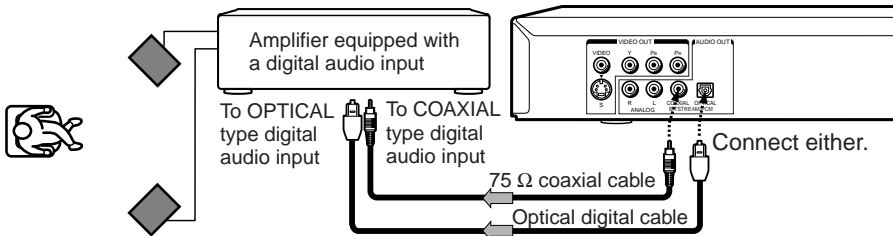75 Ω coaxial cable

Optical digital cable

22
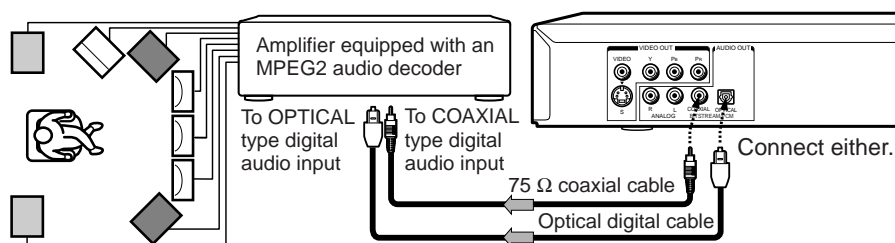
Connecting to an amplifier equipped with a digital audio input

2 channel digital stereo
You can enjoy the dynamic sound of 2 channel digital stereo by connecting an amplifier equipped with a digital audio input and speaker system (right and left front speakers).

• Make the following setting.

On-screen display	Select:	Page
"Audio Out Select"	"PCM"	48 51

Amplifier equipped with a digital audio input

To OPTICAL type digital audio input

To COAXIAL type digital audio input

VIDEO OUT   AUDIO OUT
VIDEO   Y   Pb   Pr
S   R   L   COAXIAL OPTICAL
ANALOG   BITSTREAM/PCM

Connect either.

75 Ω coaxial cable

Optical digital cable

23

Basic playback

Begin your operation.

● **Playing a Disc**

● **Variable Speed Playback**

● **Locating a Desired Section**

● **Playing an MP3 Encoded CD**

Playing a Disc

This section shows you the basics on how to play a disc.

CAUTION
Keep your fingers well clear of the disc tray as it is closing. Neglecting to do so may cause serious personal injury.

ON/STANDBY indicator **1**　　**3**　　**2, 4** STOP PLAY

TOP MENU　　▲ / ▼ /ENTER　　PAUSE
MENU
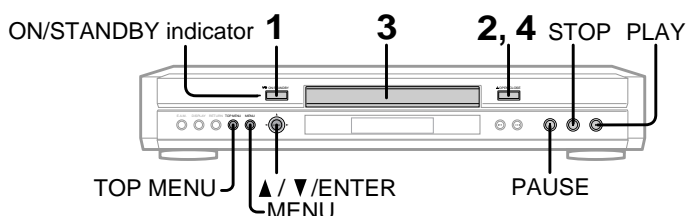
Basic playback
DVD VCD CD

Preparations
• When you want to view a disc, turn on the TV and select the video input connected to the DVD video player.
• When you want to enjoy the sound of discs from the audio system, turn on the audio system and select the input connected to the DVD video player.

1 **Press the power button (ON/STANDBY).**

I/⏻ The DVD video player turns on and the colour of the ON/STANDBY indicator changes from red (standby) to green (on).

When the DVD video player is turned on for the first time, a message appears. Press ENTER, and make the proper settings before proceeding to step 2. |56⟩

2 **Press OPEN/CLOSE.**

▲ OPEN/CLOSE The disc tray opens.

3 **Place the disc on the disc tray.**
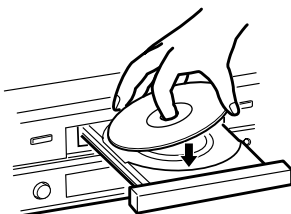
With the playback side down

• There are two different disc sizes. Place the disc in the correct guide on the disc tray. If the disc is out of the guide, it may damage the disc and cause the DVD video player to malfunction.
• Do not place a disc which is unplayable in this DVD video player.

4 **Press OPEN/CLOSE to close the disc tray.**
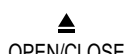
▲ OPEN/CLOSE Playback starts.

If you insert a DVD video disc that contains a top menu, a menu may appear. See "Locating a title using the top menu." |30⟩
• You may need to press the TOP MENU or MENU button to display disc menu (depending on the actual DVD video disc.)

Note
If the disc tray contains a disc you have already played, playback will begin from the location where you last stopped playback. |29⟩

■ **To start playback in the stop mode**
Press **PLAY**.

PLAY ►

26

2, 4
1
PAUSE/STEP
PLAY
STOP
MENU
ENTER
▲ / ▼

TOP MENU
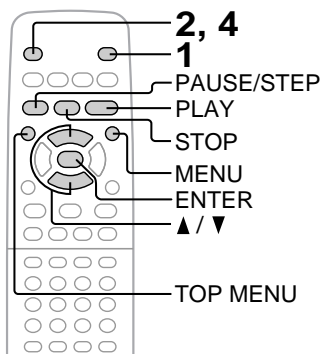
■ **To obtain a higher quality picture**
Occasionally, some picture noise not usually visible during a normal broadcast may appear on the TV screen while playing a DVD video disc because the high resolution pictures on these discs include a lot of information. While the amount of noise depends on the TV you use with this DVD video player, you should generally reduce the sharpness adjustment on your TV when viewing DVD video discs.

■ **About** ⟨DVD⟩ ⟨VCD⟩ ⟨CD⟩
The ⟨DVD⟩ ⟨VCD⟩ ⟨CD⟩ icons on the heading bar show the playable discs for the function described under that heading.
⟨DVD⟩ : You can use this function with DVD video discs.
⟨VCD⟩ : You can use this function with VIDEO CDs.
⟨CD⟩ : You can use this function with audio CDs.

■ **To pause playback (still mode)**
Press **PAUSE/STEP** during playback.

PAUSE/STEP
❙❙/❙▶

To resume normal playback, press the PLAY button.

• Sound is muted during still mode.

■ **To stop playback**
Press **STOP**.

STOP
■

■ **To remove the disc**
Press **OPEN/CLOSE**.

▲
OPEN/CLOSE
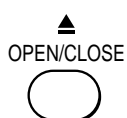
Remove the disc after the disc tray opens completely.
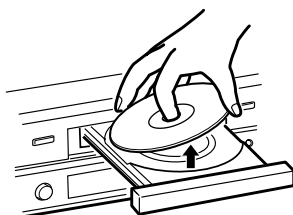
Be sure to press the OPEN/CLOSE button to close the disc tray after you remove the disc.

■ **About the screen saver**
If you pause a picture of a DVD video disc and leave it still for a long while, the screen saver of the DVD video player automatically appears (when "Screen Saver" is set to "On" ⟨53⟩). To turn off the screen saver, press the PLAY button.

■ **Automatic Power Off function**
If the DVD video player is stopped, or the screen saver is engaged for approximately 20 minutes, the DVD video player will automatically turn itself off.

Notes
• Do not move the DVD video player during playback. Doing so may damage the disc.
• Use the OPEN/CLOSE button to open and close the disc tray. Do not push the disc tray while it is moving. Doing so may cause the DVD video player to malfunction.
• Do not push up on the disc tray or put any objects other than discs on the disc tray. Doing so may cause the DVD video player to malfunction.
• In many instances, a menu screen will appear after playback of a movie is completed. Prolonged display of an on-screen menu may damage your television set, permanently etching that image onto its screen. To avoid this, be sure to press the STOP button on your remote control once the movie is completed.

27

Variable Speed Playback

You can play discs at various speeds, and resume playback from the location where you stopped playback.

REV
FWD
PLAY
STOP
PAUSE/STEP
SLOW
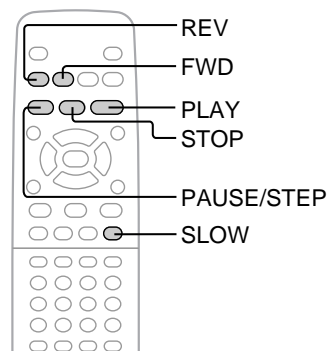
DVD VCD CD Playing in fast reverse or fast forward directions

Press REV or FWD during playback.

REV FWD REV: Fast reverse playback
◀◀ ▶▶ FWD: Fast forward playback

Each time you press the REV or FWD button, the playback speed changes.

■ **To resume normal playback**
Press **PLAY**.

PLAY
▶

Notes
• The DVD video player mutes sound and omits subtitles during reverse and forward scan of DVD video discs. However, the DVD video player plays sound during fast forward or fast reverse play of audio CDs.
• The playback speed may differ depending on the disc.

DVD VCD Playing frame by frame

Press PAUSE/STEP during still playback.

PAUSE/STEP Each time you press the PAUSE/
❙❙/❙▶ STEP button, the picture advances one frame.

■ **To resume normal playback**
Press **PLAY**.

PLAY
▶

Note
The sound is muted during frame by frame playback.

28

(DVD)(VCD) Playing in slow-motion

Press SLOW during playback.

SLOW
(▌►)

Each time you press the SLOW button, the slow-motion speed changes.

■ **To resume normal playback**

Press **PLAY**.

PLAY
(►)

Notes
• The sound is muted during slow-motion playback.
• The playback speed may differ depending on the disc.

(DVD)(VCD)(CD) Resuming playback from the same location

1 **Press STOP at the location where you want to interrupt playback.**

STOP
(■)

The DVD video player memorizes the location where playback is stopped.

2 **Press PLAY.**

PLAY
(►)

The DVD video player resumes playback from the location where you stopped playback.

■ **To start playback from the beginning regardless of the location where you stopped playback**

1 Press **STOP** twice.

STOP
(■)

The DVD video player's memory is cleared.

2 Press **PLAY**.

PLAY
(►)

(DVD) Playback starts from the beginning of the current title.

(VCD)(CD) Playback starts from the beginning of the disc.

• If you want to return to the beginning of a DVD video disc, open and close the disc tray once with the OPEN/CLOSE button before pressing the PLAY button.

Notes
• The DVD video player's memory is also cleared when:
  – you change the parental lock setting |54⟩ or select a disc menu language |52⟩.
  – you play a PBC-featured VIDEO CD while "PBC" |55⟩ is set to "On".
  – you open the disc tray.
• There may be a difference in the location where playback resumes depending on the disc.
• Settings you changed using the on-screen displays while the DVD video player keeps a location in the memory may function only after the memory is cleared.
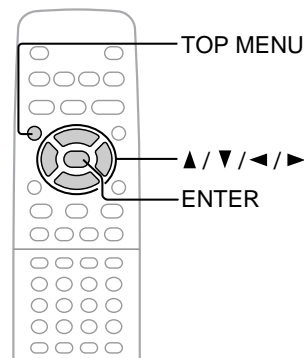
29

Locating a Desired Section

TOP MENU

▲ / ▼ / ◄ / ►

ENTER

Normally, DVD video discs are divided into titles, and the titles are sub-divided into chapters. VIDEO CDs and audio CDs are divided into tracks. You can quickly locate any specific title, chapter, or track.
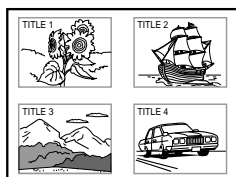
DVD video disc

Title 1

Chapter 1   Chapter 2

Title 2

Chapter 1   Chapter 2   Chapter 3

VIDEO CD/audio CD

Track 1   Track 2   Track 3   Track 4   Track 5
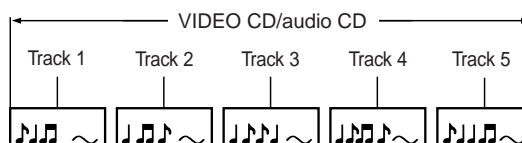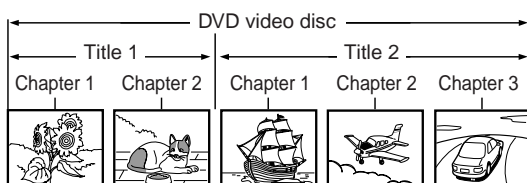
DVD Locating a title using the top menu

1 Press TOP MENU.

TOP MENU

The top menu appears on the TV screen.

e.g.

TITLE 1   TITLE 2
TITLE 3   TITLE 4

2 Press ▲ / ▼ / ◄ / ► to select the title you want.
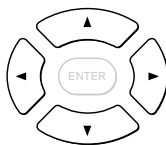
ENTER

If the titles in the top menu are assigned a number, you can directly locate a specific title by pressing its designated number with the number buttons.

3 Press ENTER.

ENTER
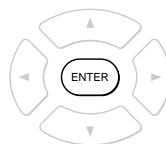
Playback starts from chapter 1 of the selected title.

Notes
• The instructions above describe basic procedures which may vary depending on the contents of the DVD video disc. If different instructions appear on the TV screen, follow those instructions.
• If you display the top menu during playback and press the TOP MENU button again without selecting any title, the DVD video player may resume playback from the point where you first pressed the TOP MENU button (depending on the actual DVD video disc.)
• This method of locating a title is available only on a disc that contains a top menu.
• Instruction notes of discs may refer to the button that displays the top menu as TITLE button.

30

SKIP
PLAY
▲ / ▼ / ◄ / ►
ENTER
CLEAR
T
Number buttons
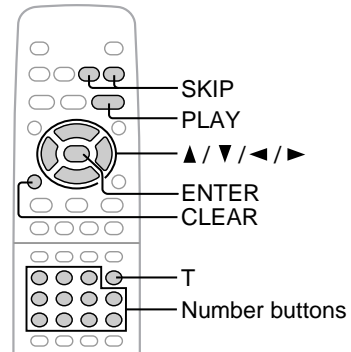
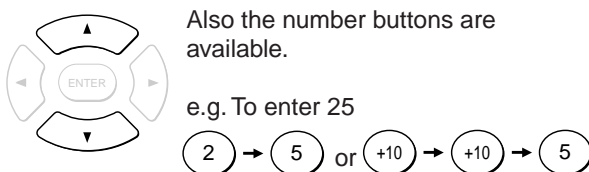## DVD VCD CD Locating a desired section by entering the corresponding number

1 **Press T.**

If you are using a VIDEO CD/audio CD, skip step 2, then at step 3, enter the number for the track you want using the number buttons.

SEARCH
T

e.g.

T 1 **C** 1 ⏲ –:--:--
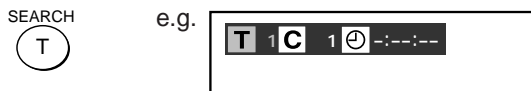
2 **Press ◄ / ► to select a section you want to locate.**

ENTER

e.g. When you want to locate a chapter.

T 1 **C** 1 ⏲ –:--:--
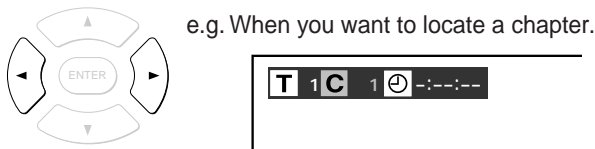
3 **Press ▲ / ▼ to enter a number of the section.**

ENTER

Also the number buttons are available.

e.g. To enter 25

2 → 5 or +10 → +10 → 5

4 **Repeat steps 2 and 3 if necessary.**

5 **Press PLAY or ENTER.**

PLAY
►

ENTER

Playback starts from the selected section.
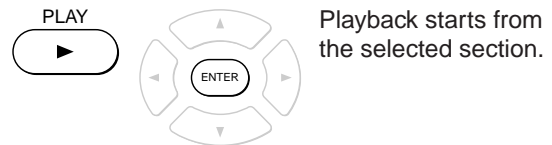
Notes
• Pressing the CLEAR button resets the numbers. To clear the display, press the T button several times.
• This method of locating a title is available only on a disc that contains title numbers.

DVD VCD CD Locating a specific chapter or track

Press SKIP I◄◄ or ►►I repeatedly to display the chapter or track number you want.

Playback starts from the selected chapter or track.

SKIP
►►I

To locate succeeding chapters or tracks.

SKIP
I◄◄

Playback starts from the beginning of the current chapter or track.
When you press twice, playback starts from the beginning of the preceding chapter or track.
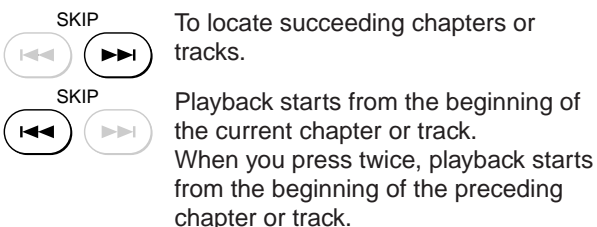
Notes
• Some titles may not display chapter numbers.
• If you press and hold the SKIP I◄◄ or ►►I button on the front panel during playback, the DVD video player performs fast reverse or fast forward playback. You can vary the speed by pressing the button repeatedly.
  To locate chapters or tracks during fast reverse or fast forward playback, first press the PLAY button to resume normal playback, then use the SKIP I◄◄ or ►►I button.
• When you set "Title Stop" to "Off" 55 , you can access chapters in another title. If you go back to the preceding title by pressing the SKIP I◄◄ button, the DVD video player locates the first chapter of the title. When "Title Stop" is set to "On," you can access chapters only within the current title.

31

Playing an MP3 Encoded CD

You can play MP3 files on this DVD video player.

2
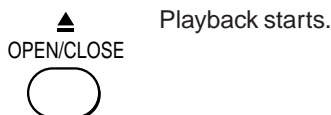PAUSE/STEP
PLAY
3
▲ / ▼ / ◄ / ►
ENTER
DISPLAY
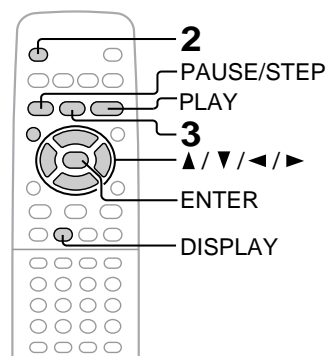
Playing an MP3 encoded CD

MP3 disc compatible with this player is limited as follows:
- Playable discs: CD-ROM, CD-R (650MB / 74 min. only)
  * CD-RW is not recommendable.
- Sampling Frequency: 44.1 kHz only
- Bit rate: 32 kbps-320 kbps
- CD physical format: Mode 1, Mode 2 XA Form 1
- File system: ISO9660 Level 1
- File names are limited to eight characters or less and must incorporate "MP3" extension.
  e.g."********.MP3"
- File names cannot contain special characters such as "?!><+*}{`[@]:;\ /.," etc.
- Total number of files on the disc should not exceed 254.

1 **Place a CD that contains MP3 files on the disc tray.**

2 **Press OPEN/CLOSE to load the disc.**

▲
OPEN/CLOSE
Playback starts.

3 **To stop playback, press STOP.**

STOP
■

Notes
- Some discs may not permit this operation.
- If you stop playback by pressing the STOP button, and then press the PLAY button, playback will start from the beginning of the track.
- The SKIP |31⟩, REPEAT |35⟩ and RANDOM |37⟩ functions are also available.

■ **To pause playback**

Press **PAUSE/STEP** during playback.

PAUSE/STEP
❙❙/▶
To resume normal playback, press the PLAY button.

■ **Selecting a track (file) in the disc**
1 Press the DISPLAY button.
2 Select the MP3 icon using the ◄ / ► buttons then press the ENTER button.
  A list of tracks appears.
3 Press the ▲ / ▼ / ◄ / ► buttons to select a track you want to play.
  The current track being played is highlighted in green.
4 Press the ENTER button to begin playback of the selected track.

This DVD video 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 files). Given the fact that technology in this area is still maturing, Toshiba cannot guarantee that all genre of recordable discs will produce optimal playback quality. The technical criteria set out in this owner's manual are meant as a guide only.

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

32

Advanced playback

Customizing the performance of your DVD video player.

● **Accessing a Specific Location Directly**

● **Playing Repeatedly**

● **Playing in a Favorite Order**

● **Playing in Random Order**

● **Zooming a Picture**

● **Selecting the Picture Enhancement (E.P.M.)**

● **Selecting the Sound Enhancement (E.A.M.)**

● **Selecting the Camera Angle**

● **Selecting Subtitles**

● **Selecting a Language**

● **Operating in the On-screen Display Mode**

Accessing a Specific Location Directly

You can access a specific location by entering its corresponding time (hours, minutes, seconds).

3

3

1

2
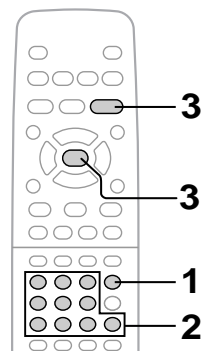
DVD
VCD
CD
Entering the time of the desired location

---

1 **Press T several times.**

SEARCH
T

You may have to press further depending on the disc. Press the button repeatedly until the clock icon is highlighted.

e.g.

> **T** 1 **C** 1 🕐 –:––:––

---
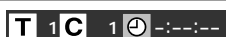
2 **Press the number buttons to enter the time.**

e.g.

1 → 2 → 5 → 3 → 0

> **T** 1 **C** 1 🕐 1:25:30

---

3 **Press PLAY or ENTER.**

PLAY
►

ENTER
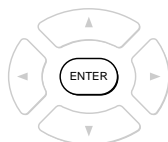
Playback starts from the desired location.

Notes
- Some discs may not respond to this process.
- Some scenes may not be located precisely as you specified.
- This method for accessing specific locations is available only within the current title of the DVD video disc or within the current track of the VIDEO CD/audio CD.

34

Playing Repeatedly

You can play a specific title, chapter, track, or segment repeatedly.
(Title repeat, chapter/track repeat, A-B repeat)

PLAY

CLEAR
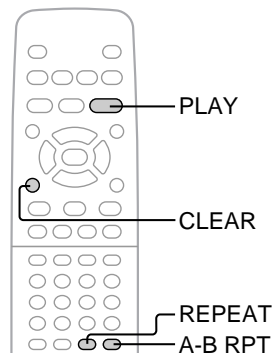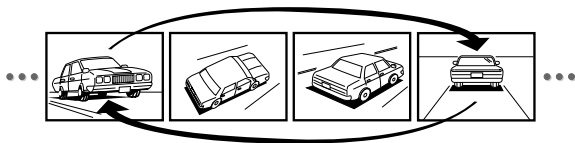
REPEAT
A-B RPT

DVD VCD CD Repeating a title, chapter, or track

1 **Press REPEAT.**

REPEAT

Each time you press the REPEAT button, the repeat mode changes as follows.

> Chapter Repeat

DVD	Chapter Repeat	Repeats the current chapter.
DVD	Title Repeat	Repeats the current title.
VCD CD	Track Repeat	Repeats the current track.
DVD VCD CD	All Repeat	Repeats the entire disc.
	Repeat Off	Resumes normal playback.

2 **Press PLAY.**

PLAY
▶

The DVD video player starts repeat playback.
Press the PLAY button within about 5 seconds after you press the REPEAT button.

■ **To resume normal playback**
Press **CLEAR**.

CLEAR
⊖

Note
Some discs may not permit repeat operation.

DVD VCD CD Repeating a specific segment

1 **Press A-B RPT at the beginning of the segment (point A) you want to play repeatedly.**

A-B RPT

A–

2 **Press A-B RPT again at the end of the segment (point B).**

A-B RPT

The DVD video player automatically returns to point A and starts repeat playback of the selected segment (A-B).

A–B

■ **To resume normal playback**
Press **CLEAR**.

CLEAR
⊖

Notes
• Some discs may not permit A-B repeat operation.
• You cannot set the A-B repeat function for a segment that includes multiple camera angles 41.
• You can specify a segment only within the current title or track (VIDEO CD).
• There may be a slight difference between point A and the location where playback actually resumes depending on the disc.

Advanced playback

35

Playing in a Favorite Order

You can combine your favorite titles, chapters, or tracks and play them in the order you determine. You can program up to 30 selections into the memory. (Memory playback)

3

▲ / ▼ / ◄ / ►

2

CLEAR

2

1
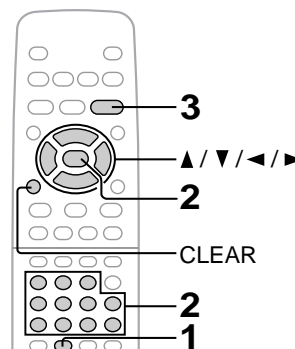
DVD VCD CD Setting titles, chapters, or tracks in a favorite order

---

1 Insert a disc and press MEMORY during stop.

MEMORY

The following display appears.

e.g.

```
1 T:-- CT:---
2 T:-- CT:---
3 T:-- CT:---
4 T:-- CT:---
5 T:-- CT:---
6 T:-- CT:---
7 T:-- CT:---
```

T: Title number
CT: Chapter number or track number

2 Select the items in the order you want by pressing the number buttons, then ENTER for each item.

Each time you press the ◄ / ► button, the spaces of "T" and "CT" are highlighted in turn. Highlight where you want to enter, then press the corresponding number buttons.

To select another chapter in the same title, you do not need to select the title number.

To select tracks from a VIDEO CD/audio CD in order, press the **number buttons** for the track, then press the **ENTER** button for each selection you want.

Note
The space of "T (Title)" may be showing a number. Neglect this number when using a VIDEO CD/audio CD.

3 Press PLAY while the display appears on the TV screen.

PLAY
►

The DVD video player starts memory playback.

■ **To change the programmed selections**
1 While the display appears on the TV screen, press ▲ / ▼ / ◄ / ► to move the highlighted bar to the item you want to change.
2 Change the selection following the instructions in step **2**.

■ **To cancel the programmed selections**
1 While the display appears on the TV screen, press ▲ / ▼ to move the highlighted bar to the item you want to cancel.
2 Press **CLEAR**.

■ **To resume normal playback from memory playback**
Press **CLEAR**.

CLEAR
—

The memory playback indicator disappears.

■ **To program during playback**
If you press the **MEMORY** button during playback, a programming display appears.
Follow steps **2** and **3**.

Notes
• Some discs may not permit memory playback operation.
• If you press the REPEAT button during memory playback, the DVD video player repeats the current memory playback.
• If you press the MEMORY or RETURN button while the display appears on the TV screen, the display disappears.
• The programmed selections will be cleared when you turn off the DVD video player.

36

Playing in Random Order

You can play titles, chapters within a title, or tracks in random order.
(Random playback)
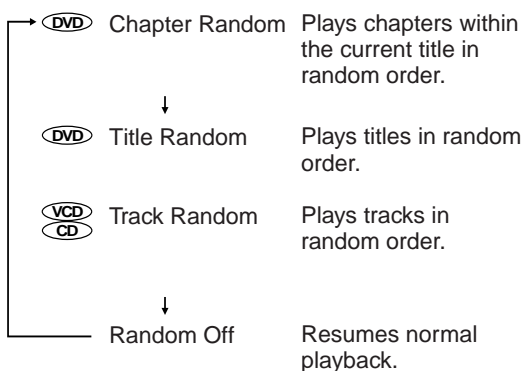
2

CLEAR

1
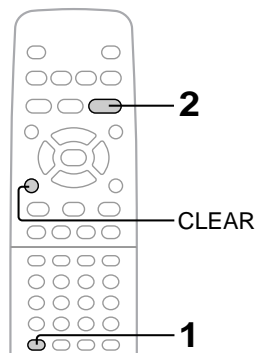
DVD VCD CD Playing titles, chapters or tracks in random order

1 **Press RANDOM.**

RANDOM

Each time you press the RANDOM button, the random playback mode changes as follows.

| Chapter Random |

DVD Chapter Random — Plays chapters within the current title in random order.

DVD Title Random — Plays titles in random order.

VCD CD Track Random — Plays tracks in random order.

Random Off — Resumes normal playback.

If you press the RANDOM button during playback, the DVD video player automatically starts random playback after finishing the current title, chapter or track.

2 **Press PLAY.**

PLAY
▶

The DVD video player starts random playback.
Press the PLAY button within about 5 seconds after you press the RANDOM button.

■ **To resume normal playback**
Press **CLEAR**.

CLEAR
—

Notes
• Some discs may not permit random playback operation.
• You cannot use the random playback function in conjunction with the memory playback function.

Advanced playback

37

*Z*ooming a Picture

You can magnify areas within a picture.

▲ / ▼ / ◄ / ►
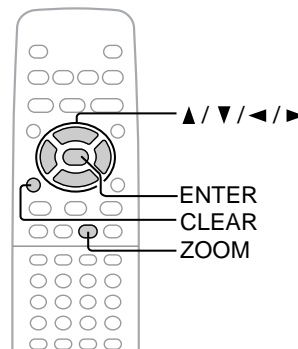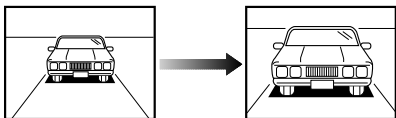
ENTER
CLEAR
ZOOM

ⓓⱽⱽ Zooming a picture

Press ZOOM during normal, slow or still playback.

ZOOM

The DVD video player enters the zoom playback mode and displays the icon.

e.g.

ZOOM EXIT

ZOOM : As you repeatedly press the ENTER (or ZOOM) button while "ZOOM" is selected, the magnification level changes.
Variation of the levels includes reducing.

EXIT : If you press the ENTER button while "EXIT" is selected, you can turn off the icon, keeping the current magnification level.

You can shift the highlight within the icon by the ▲ / ▼ / ◄ / ► buttons.
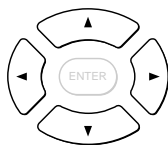
If you press and hold the ▲ / ▼ / ◄ / ► buttons, the zoom point shifts.

ENTER

CLEAR

Pressing the CLEAR button restores the zoom point to the center of the picture.

■ To resume normal playback

While "ZOOM" is selected, press **ZOOM** repeatedly to turn off the icon.
Picture restores the size when the icon disappears.

ZOOM

• The ENTER button cannot cancel zoom playback if you have turned off the icon by selecting "EXIT." To restore normal picture size, press the ZOOM button to display the icon, then further press the ZOOM button until the icon turns off.

Notes
• Some discs may not respond to zoom feature.
• During some scenes, the buttons may not work as described.
• Zooming does not work on subtitles or menus included on DVD video discs.
• While the icon is displayed, the ▲ / ▼ / ◄ / ► buttons cannot work on menus included on DVD video discs. If you want to view the menus, turn off the icon.
• The magnification level varies depending on the picture size you select. 50

38

Selecting the Picture Enhancement (E.P.M.)*

You can easily switch the picture enhancement to your preference.

*E.P.M.: Enhanced Picture Mode

2

ENTER

1, 2
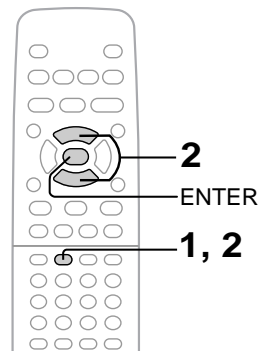
DVD VCD CD Selecting the picture enhancement

1 Press E.P.M.

E.P.M.

The picture enhancement selection appears.

EPM
EPM
EPM 1
EPM 2
EPM

2 Select the picture enhancement by pressing E.P.M. or ▲ / ▼.

Each time you press the button, the picture enhancement changes.

EPM — Light:
Brighter than in "Normal".

EPM — Normal:
Standard black level.

EPM 1 — Movie1:
To raise brightness to clarify details.

EPM 2 — Movie2:
To deepen colours.

EPM — Animation:
To raise contrast enhancing colours.

■ To turn off the picture enhancement selection
Press **ENTER**.
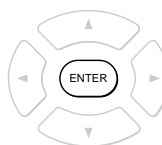
ENTER

Alternatively leave the DVD video player unoperated for about 5 seconds after having made the selection.

Note
Actual effects to pictures may vary depending on the TV. Make the selection to your preference.

Advanced playback

39

Selecting the Sound Enhancement (E.A.M.)*

You can easily switch the sound enhancement to your preference.

*E.A.M.: Enhanced Audio Mode

2
ENTER
1, 2
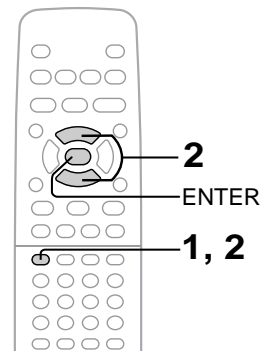
DVD VCD CD Selecting the sound enhancement

1 Press E.A.M.

E.A.M.

The sound enhancement selection appears.

E A M
E A M
E A M

2 Select the sound enhancement by pressing E.A.M. or ▲ / ▼.

Each time you press the button, the sound enhancement changes.

E A M

Normal:
Normal sound.

E A M

3D:
To obtain expansive virtual surround sound effects from just two speakers.

E A M

Dialogue:
To control dynamic range to make dialogues easier to hear (only when playing a DVD video disc recorded on the Dolby Digital recording system).
• To use this enhancement on sounds output from the BITSTREAM/PCM AUDIO OUT jack, be sure to set "Audio Out Select" to "PCM". 51

■ **To turn off the audio enhancement selection**
Press **ENTER**.
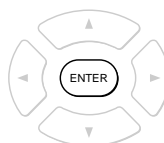
ENTER

Alternatively leave the DVD video player unoperated for about 5 seconds after having made the selection.

Notes
• Actual effects to sounds may vary depending on the speakers. Make the selection to your preference.
• Actual effects to sounds may vary depending on the disc.
• When the DVD video player is connected to an amplifier equipped with Dolby Pro Logic Surround, select "Normal". Otherwise, Dolby Pro Logic Surround may function differently than usual.
• Selecting "Dialogue" disables "Dynamic Range Control" function 51.

Spatializer® 3-Dimensional Sound Processing provided by Desper Products. Inc.
Certain audio features of this product manufactured under a license from Desper Products, Inc., Spatializer® and the circle-in-square device are trademarks owned by Desper Products, Inc.

40

Selecting the Camera Angle

If the scene was recorded from multiple angles, you can easily change the camera angle of the scene you are watching.

2 — ENTER
1, 2
CLEAR
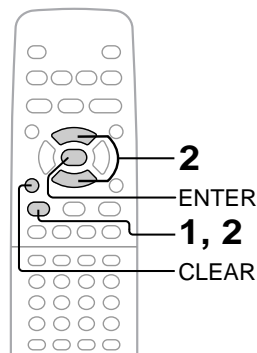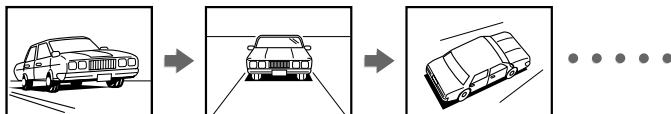
🔲 **DVD** Changing the camera angle

1 **Press ANGLE while playing a scene recorded with multiple angles.**

ANGLE

While playing a scene recorded with multiple angles, the angle icon (📹) flashes in the DVD display.
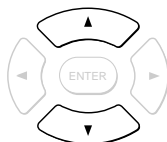Press the ANGLE button while the angle icon is flashing.

1
2
3

2 **Press ANGLE or ▲ / ▼ while the angle number is displayed on the TV screen.**

ANGLE

Each time you press the ANGLE button, the camera angle changes.

ENTER

You can change the camera angle directly by pressing the number buttons corresponding to its angle number instead of using the ▲ / ▼ buttons.

To turn off the display, press the CLEAR or ENTER button.

Notes
• You can change the camera angle during still playback. The camera angle changes to the new setting when you resume normal playback.
• If you pause a picture immediately after changing a camera angle, the resumed playback picture may not display the new camera angle.

41

Selecting Subtitles

You can display subtitles on the TV screen and select a subtitle language from those included on the DVD video disc.

Good evening! → Bonsoir! → Buenas tardes! • • • • • •

▲ / ▼ / ◄ / ►
ENTER
SUBTITLE
CLEAR
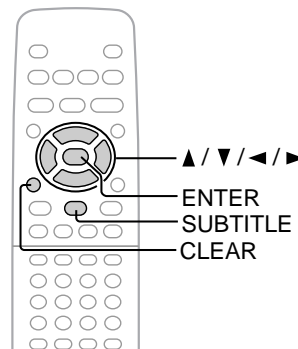
[DVD] Selecting a subtitle language

1 Press SUBTITLE during playback.

SUBTITLE — The current subtitle setting is displayed.

e.g.

| Off |
| JPN 1 |
| FRE 1 |
| SPA 1 |

The abbreviation of the language appears instead of the language name. Refer to the list of languages and their abbreviations. |57|

2 Press SUBTITLE or ▲ / ▼ while the subtitle setting is displayed on the TV screen.

SUBTITLE — Each time you press the SUBTITLE button, the subtitle languages included on the DVD video disc change.
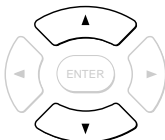
To turn off the subtitle setting display, press the CLEAR or ENTER button.

■ To turn subtitles on or off

1 Press **SUBTITLE** during playback.

SUBTITLE

2 Press ◄ / ► while the subtitle setting is displayed on the TV screen, to select "On" or "Off."

ENTER
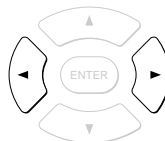
Notes
• Some DVD video discs are set to display subtitles automatically, and you cannot turn them off even if you set the subtitle function to off.
• During some scenes, the subtitles may not appear immediately after you select "On."
• Some DVD video discs will allow you to make subtitle selections and turn subtitles on or off only via the disc menu.

Notes
• When you turn on the DVD video player or replace a disc, the player returns to the initial default setting |52|.
  When you select a subtitle language which is not included on the disc, the DVD video player plays a prior language programmed on the disc.
• During some scenes, the subtitles may not appear immediately after you change the subtitle language.

42

Selecting a Language

You can select a preferred language and sound recording system from those included on the DVD video disc.

Good morning! Bonjour! ¡Buenos días! ● ● ●

2
ENTER
1, 2
CLEAR
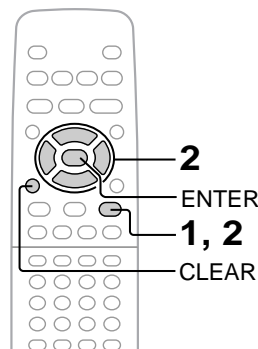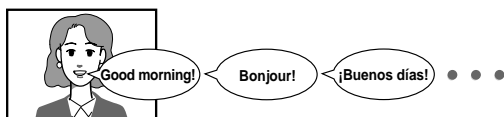
DVD/VCD Selecting a playback audio setting

1 **Press AUDIO during playback.**

AUDIO

The current audio setting is displayed.

e.g.

ENG1 PCM 2CH
ENG2 ⊡⊡ D 2CH

The abbreviation of the language appears instead of the language name. Refer to the list of languages and their abbreviations. 57

2 **Press AUDIO or ▲ / ▼ while the audio setting is displayed on the TV screen.**

AUDIO

Each time you press the AUDIO button, the audio settings included on the DVD video disc change.
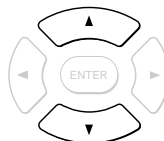
ENTER

If you press the ◄ / ► buttons, you can select output sound format. 51

To turn off the audio setting display, press the CLEAR or ENTER button.

■ Selecting sound channels of VIDEO CDs

You can switch left and right channels by pressing the **AUDIO** button repeatedly during playback.

AUDIO

Notes
• When you turn on the DVD video player or replace a disc, player returns to the initial default setting 52.
 If you select a sound track which is not included on the disc, the DVD video player plays a prior sound track programmed on the disc.
• Some discs allow you to change audio selections only via the disc menu. If this is the case, press the MENU button and choose the appropriate language from the selections on the disc menu.


■ Output sound conversion table (sampling frequency/quantization bit)

Discs	Recording system	Audio selection from the menu 48 51 and output jacks on the rear panel					
		"Bitstream"		"Analog 2ch"		"PCM"	
		BITSTREAM/PCM jack	ANALOG AUDIO OUT jacks	BITSTREAM/PCM jack	ANALOG AUDIO OUT jacks	BITSTREAM/PCM jack	ANALOG AUDIO OUT jacks
DVD video discs	Dolby Digital	Bitstream	48 kHz/20 bit	Bitstream	48 kHz/20 bit	48 kHz/16 bit	48 kHz/20 bit
	Linear PCM 48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit
	48 kHz/20 bit	48 kHz/16 bit	48 kHz/20 bit	48 kHz/16 bit	48 kHz/20 bit	48 kHz/16 bit	48 kHz/20 bit
	48 kHz/24 bit	48 kHz/16 bit	48 kHz/24 bit	48 kHz/16 bit	48 kHz/24 bit	48 kHz/16 bit	48 kHz/24 bit
	96 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	—	96 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit
	96 kHz/20 bit	48 kHz/16 bit	48 kHz/20 bit	—	96 kHz/20 bit	48 kHz/16 bit	48 kHz/20 bit
	96 kHz/24 bit	48 kHz/16 bit	48 kHz/24 bit	—	96 kHz/24 bit	48 kHz/16 bit	48 kHz/24 bit
	DTS	Bitstream	—	Bitstream	—	—	—
	MPEG1, MPEG2	Bitstream	48 kHz/16 bit	Bitstream	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit
VIDEO CDs	MPEG1	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit
Audio CDs	Linear PCM 44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit
	DTS	Bitstream	(Noise)	Bitstream	(Noise)	Bitstream	(Noise)

: 3D sound enhancement can function.

Advanced playback

43

Operating in the On-screen Display Mode

When you turn on the on-screen display, you can view information on operational status and access the features and settings on-screen.

◄ / ►

ENTER
DISPLAY
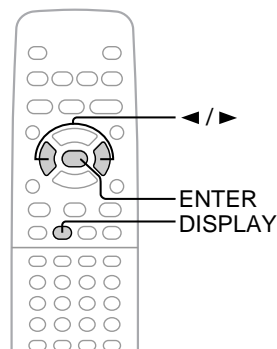
DVD VCD CD Operating in the on-screen display mode

Press DISPLAY.

DISPLAY

The following display appears.
Each time you press the DISPLAY button, the on-screen display changes as follows.
If you press the ◄ / ► buttons to select an icon, then press the ENTER button, you can access the feature.
When you select an icon (∗), no need to press the ENTER button.
See the pages in ⬜ for details on the features.

e.g. When playing a DVD video disc

T 2 C 3 🕐 0:08:16 ⬤…▣♫ ▶

T ∗ : Title number (Track number)
To locate a title or track using the number. 31

C ∗ : Chapter number
To locate a chapter using the number. 31

🕐 ∗ : Elapsed time of the current title
To enter the time to locate a desired location. 34

⬤ : Audio setting 43

▫…▫ : Subtitle setting 42

🎥 : Angle setting 41

♫ : To turn off the display.

Press DISPLAY again.
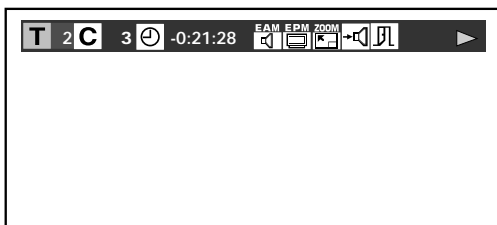
T 2 C 3 🕐 -0:21:28 EAM EPM ZOOM ◀▣◀♫ ▶

T ∗ : Title number (Track number)
To locate a title or track using the number. 31

C ∗ : Chapter number
To locate a chapter using the number. 31

🕐 ∗ : Remaining time of the current title
To enter the time to locate a desired location. 34

EAM : E.A.M. (Enhanced Audio Mode) setting 40

EPM : E.P.M. (Enhanced Picture Mode) setting 39

ZOOM : To zoom a picture. 38

→◀ : "Audio Out Select" setting 51
BST: Bitstream   2CH: Analog 2ch   PCM: PCM

♫ : To turn off the display.

44

Press DISPLAY again.

⬇

T 2 C 3 ☐ |◄◄ ◄◄ ▷ ▷▷ ▷▷| |▷ || ♫ ▶

Press DISPLAY again.

⬇

T 2 C 3 🕙 0:08:16 ♫ BIT RATE ▮▮▮▮▮▮▮▮▮▮▮ 9.6 Mbps

⬇
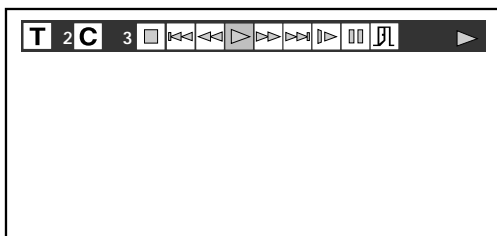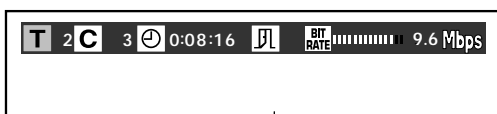
OFF
To turn off the on-screen display, press DISPLAY again.

T * : Title number (Track number)
To locate a title or track using the number. 31⟩

C * : Chapter number
To locate a chapter using the number. 31⟩

☐ : To stop playback. 27⟩

|◄◄ : Playback starts from the beginning of the current chapter or track. 31⟩

◄◄ : Fast reverse playback 28⟩

▷ : To start playback. 26⟩

▷▷ : Fast forward playback 28⟩

▷▷| : To locate succeeding chapters or tracks. 31⟩

|▷ : To slow motion playback. 29⟩

|| : To pause playback. 27⟩

♫ : To turn off the display.

The on-screen display will vary depending on the disc.

DVD : Data transfer rate (Mbit/s)
= Amount of picture, sound and subtitle data in the DVD video disc transferred per second.
The larger the value is, the more data processed, but this does not necessarily insure better picture quality.

CD : CD-Text
Displays CD-Text data if included on the audio CDs. (Some letters may not be displayed properly depending on the disc.)

VCD : The on-screen display turns off.
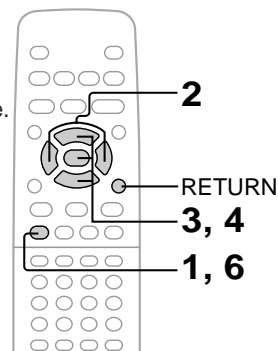
45

Function Setup

You can change the default settings to customize performance to your preference.

● **Customizing the Function Settings**

● **Table of Languages**

Customizing the Function Settings

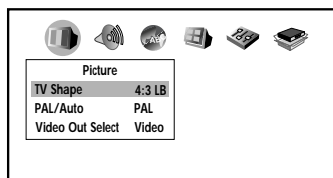You can change the default settings to customize performance to your preference.

2

RETURN

3, 4

1, 6

Setting procedure
DVD VCD CD

1 **Press SETUP during stop.**

SETUP

The following on-screen display appears.

Picture
TV Shape 4:3 LB
PAL/Auto PAL
Video Out Select Video

2 **Press ◄ / ► to select a symbol for the setting you want to change.**

(See the next page.)
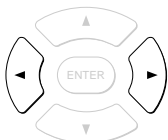
ENTER
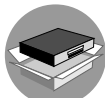
Picture performance settings
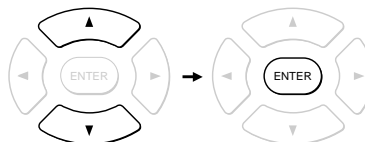
Output sound settings

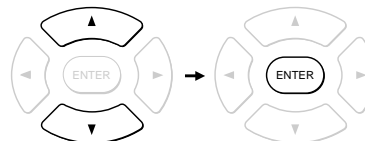Language settings

Display settings

Operational settings

Initial settings

3 **Press ▲ / ▼ to select the setting you want to change, then press ENTER.**

ENTER → ENTER

4 **Change the selection by ▲ / ▼ or other buttons, by referring to the corresponding pages (50 –), then press ENTER.**

ENTER → ENTER

5 **Repeat steps 3 and 4 to change other settings.**

To select another operation, go back to step 2.

6 **Press SETUP.**

SETUP

The on-screen display disappears.

■ **To return to the previous display**
Press **RETURN**.

RETURN

Notes
• The on-screen display disappears when you press the SETUP button.
• The SETUP button can function even during normal playback, however some operations may be inaccessible, and a message will appear. In this case, try again after playback is stopped.

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Setting		Details	Page
TV Shape	DVD	**To select a picture size according to the aspect ratio of your TV.**	**50**
PAL/Auto	DVD VCD	**To select the video system of a disc.**	**50**
Video Out Select	DVD VCD	**To select the video output type corresponding to your TV system**	**50**

Audio Out Select	DVD VCD CD	**To select an output sound format corresponding to your system connection.**	**51**
Dynamic Range Control	DVD	**To turn on or off a function that makes faint sounds easier to hear even if you lower the volume during late hours playback.**	**51**
Karaoke Vocal	DVD	**To turn on or off the vocal output during DVD KARAOKE disc playback.**	**51**

On-Screen Language	DVD VCD CD	**To select a preferred language for on-screen displays.**	**52**
Disc Menu Language	DVD	**To select a preferred language for disc menus.**	**52**
Audio Language	DVD	**To select a preferred language for the sound track.**	**52**
Subtitle Language	DVD	**To select a preferred language for subtitles.**	**52**

On-Screen Displays	DVD VCD CD	**To turn on or de-activate the operational status display on the TV screen.**	**53**
Background	DVD VCD CD	**To select the background colour or background picture.**	**53**
Screen Saver	DVD	**To turn the screen saver on or off.**	**53**

Pause/Still	DVD	**To select the resolution of still pictures. (Field/Frame)**	**54**
Parental Lock	DVD	**To turn the parental lock function on or off.**	**54**
Title Stop	DVD	**To turn on or off a feature that automatically stops playback after a title has been viewed.**	**55**
PBC	VCD	**To use the menu screen when playing a PBC-controllable VIDEO CD.**	**55**

On-screen Language TV Shape Audio Out Select	DVD VCD CD	**To install the initial system setting.**	**56**

Function setup

49

Customizing the Function Settings (continued)

Setting details

Picture
TV Shape   4:3 LB
PAL/Auto   PAL
Video Out Select Video
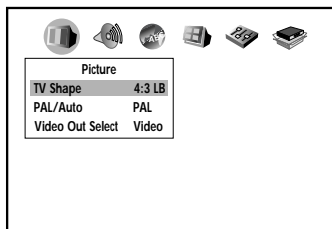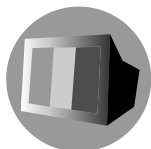
TV Shape   DVD

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 Normal: Select when a standard 4:3 TV is connected.
Displays pictures cropped to fill your TV screen. Either or both sides of the picture are cut off.

16:9 Widescreen: Select when a 16:9 wide TV is connected.

Notes
• The displayable picture size is preset on the DVD video disc. Therefore, the playback picture of some DVD video discs may not conform to the picture size you select.
• When you play DVD video discs recorded in the 4:3 picture size only, the playback picture always appears in the 4:3 picture size regardless of the TV shape setting.
• If you select "16:9 Widescreen" and you own a 4:3 TV set, the DVD playback picture will be horizontally distorted during playback. Images will appear to be horizontally compressed. Always be sure that your TV shape conforms to the actual TV in use.

PAL/Auto   DVD VCD

PAL: To play a PAL disc. Connect a PAL TV to view a picture.
Auto: The DVD video player automatically identifies PAL or NTSC video system of a disc. Connect a multisystem TV (PAL/NTSC compatible) to view a picture.
A playback picture may be distorted when detected a signal change between PAL and NTSC on the disc.

Video Out Select   DVD VCD

Video: Select when connected to a normal TV. 18

S Video: Select when connected to a TV compatible with S video signals. 18 19

RGB: Select when connected to an RGB monitor. 18

Notes
• When you connect a TV equipped with the component video inputs, select "Video" or "S Video". 18
• If the on-screen display disappears immediately after you select "RGB", you can restore it by connecting the DVD player using the VIDEO OUT (yellow) jack.

50
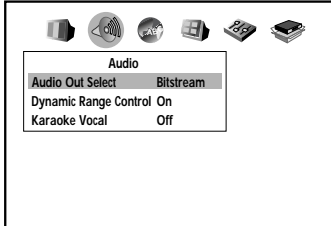
Audio Out Select   DVD VCD CD

Select the output sound format corresponding to your system connection.
For details of sound recording systems, see 43 .

Bitstream: Select when connected to an amplifier equipped with a Dolby Digital, DTS, MPEG1 or MPEG2 decoder. 21   22
The DVD video player outputs digital audio information in the bitstream format when you play a DVD video disc recorded on the Dolby Digital, DTS, MPEG1 or MPEG2 recording system.

Analog 2ch: Select when connected to a TV, or Dolby Pro Logic or stereo system via the analog audio jacks. 18   19   21

PCM: Select when connected to a 2 channel digital stereo amplifier. 23
The DVD video 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.

Dynamic Range Control   DVD

Off: Full dynamic range is maintained.
On: Dynamic range is reduced.

Notes
• This function works only during playback of Dolby Digital recorded discs.
• The level of Dynamic Range Reduction may differ depending on the DVD video disc.

Karaoke Vocal   DVD

Off: The primary vocal is not output.
On: The primary vocal is output when it is recorded on the disc.

Notes
• The vocal output feature is used during playback of Dolby Digital (multi-channel) recorded DVD KARAOKE discs. This feature allows you to turn off vocal audio tracks, or restore them for background accompaniment.
• When playing KARAOKE, connect appropriate audio equipment such as an amplifier to the DVD video player.

Function setup

Audio
Audio Out Select   Bitstream
Dynamic Range Control   On
Karaoke Vocal   Off

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*C*ustomizing the Function Settings (continued)

Setting details

Language
On-Screen Language ENG
Disc Menu Language ENG
Audio Language ENG
Subtitle Language – – –
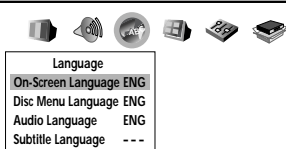
On-Screen Language DVD VCD CD

English: To view on-screen displays in English.
Français: To view on-screen displays in French.
Deutsch: To view on-screen displays in German.
Español: To view on-screen displays in Spanish.
Italiano: To view on-screen displays in Italian.

Disc Menu Language DVD

English: To display disc menus in English.
French: To display disc menus in French.
German: To display disc menus in German.
Spanish: To display disc menus in Spanish.
Italian: To display disc menus in Italian.
Others: To make a further choice.
        After pressing the ENTER button, follow
        steps 1) - 4) below.
1) Obtain the abbreviation of the preferred
   language from the list 57 .
2) Select the first character by pressing the ▲ / ▼
   buttons.
3) Press the ◄ / ► buttons to shift and select the
   second character by pressing the ▲ / ▼ buttons.

Language
On-Screen Language ENG
Disc Menu Language ENG
Audio Language ENG
Subtitle Language – – –

English
French
German
Spanish
Italian
Others
Code E S
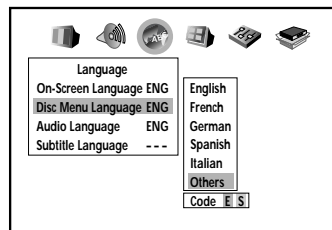
4) Press the ENTER button.

Note
Some DVD video discs may not include your pre-
selected language. In this case, the DVD video player
automatically displays disc menus consistent with the
disc's initial language setting.

Audio Language DVD

English: To play sound tracks in English.
French: To play sound tracks in French.
German: To play sound tracks in German.
Spanish: To play sound tracks in Spanish.
Italian: To play sound tracks in Italian.
Others: To make a further choice.
        After pressing the ENTER button, follow
        steps 1) - 4) below.
1) Obtain the abbreviation of the preferred
   language from the list 57 .
2) Select the first character by pressing the ▲ / ▼
   buttons.
3) Press the ◄ / ► buttons to shift and select the
   second character by pressing the ▲ / ▼ buttons.

Language
On-Screen Language ENG
Disc Menu Language ENG
Audio Language ENG
Subtitle Language – – –

English
French
German
Spanish
Italian
Others
Code E S

4) Press the ENTER button.

Note
Some DVD video discs may be played in a different
language than you selected. A prior language may be
programmed on the disc.

Subtitle Language DVD

English: To display subtitles in English.
French: To display subtitles in French.
German: To display subtitles in German.
Spanish: To display subtitles in Spanish.
Italian: To display subtitles in Italian.
No Subtitle: To disable subtitles.
Others: To make a further choice.
        After pressing the ENTER button,
        follow steps 1) - 4) below.
1) Obtain the abbreviation of the preferred
   language from the list 57 .
2) Select the first character by pressing the ▲ / ▼
   buttons.

52

3) Press the ◄ / ► buttons to shift and select the second character by pressing the ▲ / ▼ buttons.

Language
On-Screen Language ENG
Disc Menu Language ENG
Audio Language   ENG
Subtitle Language   – – –

English
French
German
Spanish
Italian
No Subtitle
Others
Code A A

4) Press the ENTER button.

Notes
• Some DVD video discs may be set to display subtitles in a different language than you selected. A prior subtitle language may be programmed on the disc.
• Some DVD video discs allow you to change subtitle selections only via the disc menu. If this is the case, press the MENU button and choose the appropriate subtitle language from the selection on the disc menu.

Display
On-Screen Displays On
Background   Gray
Screen Saver   On
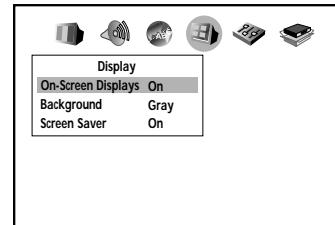
On-Screen Displays ⟨DVD⟩ ⟨VCD⟩ ⟨CD⟩

Off: Operational modes (e.g. " ▮▮", " ▷▷ ") are not displayed.
On: Operational modes (e.g. " ▮▮", " ▷▷ ") are displayed on-screen.

Background ⟨DVD⟩⟨VCD⟩⟨CD⟩

Blue: Blue background.
Gray: Gray background.
Picture: To use the picture which appears when you turn on the DVD video player as a background.
Jacket: To use the jacket picture included on some discs as a background. If it is not included, a gray background will be substituted.

Screen Saver ⟨DVD⟩

Off: The screen saver is disengaged.
On: The screen saver operates.

Function setup

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Customizing the Function Settings (continued)

Setting details


```
        Operation
Pause/Still        Auto
Parental Lock      Off
Title Stop         Off
PBC                On
```
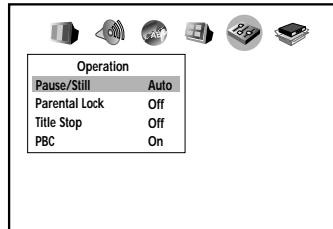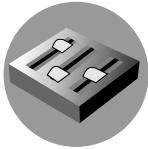
Pause/Still DVD

Auto: For normal use. Still and fast motion images can be paused.

Frame: The resolution of still pictures is improved, so that you can make a motionless picture more clearer when you pause it.

Parental Lock DVD

DVD video discs equipped with the parental lock function are rated according to their content. The contents allowed by a parental lock level and the way a DVD video disc can be controlled may vary from disc to disc. For example, if the disc allowed you could edit out violent scenes unsuitable for children and replace them with more suitable scenes, or lock out playback of the disc altogether.

• DVD video discs may or may not respond to the parental lock settings. This is not a defect in the DVD video player. Make sure this function works with your DVD video discs.

Off: The parental lock feature does not function. After pressing the ENTER button, follow step 1) below.

On: To activate the parental lock feature or change the settings. After pressing the ENTER button, follow steps 1) - 3) below.


```
        Operation
Pause/Still        Auto      Off
Parental Lock      Off       On
Title Stop         Off
PBC                On        Security Code - - - -
```
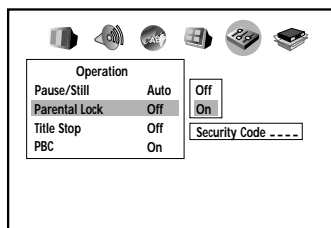
1) Press the number buttons to create a personal 4-digit security code, then press the ENTER button.
   If you make a mistake before pressing the ENTER button, press the CLEAR button and enter your 4-digit security code again.

2) Enter the code of a country/area whose standards were used to rate the DVD video disc, referring to the list below.

Country/Area	Code
AUSTRALIA	AU
BELGIUM	BE
CANADA	CA
CHINA	CN
CHINA HONG KONG	HK
DENMARK	DK
FINLAND	FI
FRANCE	FR
GERMANY	DE
INDONESIA	ID
ITALY	IT
JAPAN	JP
MALAYSIA	MY
NETHERLANDS	NL
NORWAY	NO
PHILIPPINES	PH
RUSSIAN FEDERATION	RU
SINGAPORE	SG
SPAIN	ES
SWEDEN	SE
SWITZERLAND	CH
TAIWAN	TW
THAILAND	TH
UNITED KINGDOM	GB
UNITED STATES	US

a) Select the first character by pressing the ▲ / ▼ buttons.

b) Press the ◄ / ► buttons to shift and select the second character by pressing the ▲ / ▼ buttons.
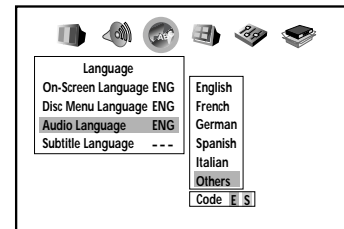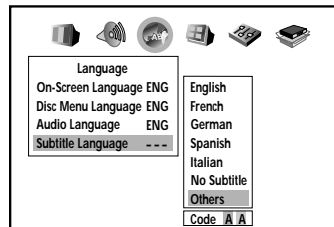
c) Press the ENTER button.

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3) Press the ▲ / ▼ buttons to select the parental lock level, then press the ENTER button.

```
                    Operation
Pause/Still          Auto
Parental Lock        Off
Title Stop           Off     ┌─────────────────┐
PBC                  On      │ Area Code   U  S │
                             │ Level         7  │
                             └─────────────────┘
```
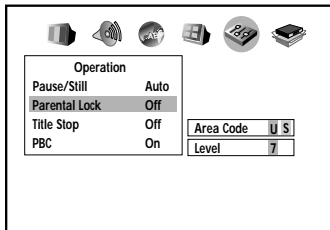
You cannot play DVD video discs rated higher than the level you selected unless you cancel the parental lock function.
For example, when you select level 7, discs rated higher than level 7 are locked out and cannot be played.

The parental lock level is equivalent to the following USA movie ratings.
  Level 7: NC-17
  Level 6: R
  Level 4: PG 13
  Level 3: PG
  Level 1: G

The parental lock levels for other countries/areas than U.S. are included for future use. Check the appropriate parental lock level when you buy a DVD video disc equipped with the parental lock feature in the future.

■ **To change the parental lock level**
  Follow steps 1) - 3).

■ **To change your 4-digit security code**
1) After selecting "On" or "Off," press the STOP button four times, then press the ENTER button.

STOP → STOP → STOP → STOP → ENTER
[■] → [■] → [■] → [■] → ENTER
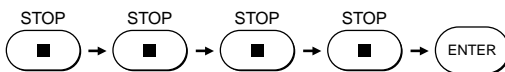
  The 4-digit security code is cleared.
2) Press the number buttons to create a new 4-digit security code.
3) Press the ENTER button.

Title Stop   DVD

Off: The DVD video player continues after playback of a title is completed.
On: The DVD video player stops after playback of a title is completed.

PBC   VCD

Off: When playing a VIDEO CD without using the menu.
On: To use the menu when playing a PBC-featured VIDEO CD.

Function setup

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Customizing the Function Settings (continued)

Setting details

Initial Setup
On-Screen Language ENG
TV Shape   4:3 LB
Audio Out Select   Bitstream
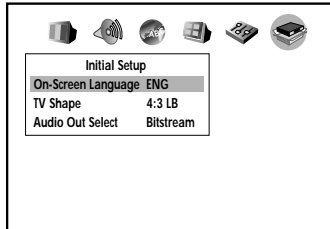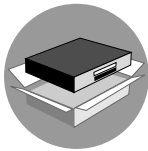
Initial Setup DVD VCD CD

1) Press the ▲ / ▼ buttons to select "On-Screen Language," and press the **ENTER** button.

ENTER ➡ ENTER
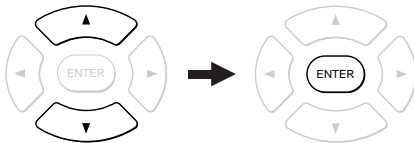
2) Select a language pressing the ▲ / ▼ buttons, and press the **ENTER** button.

   See page 52 , "On-Screen Language."

ENTER ➡ ENTER
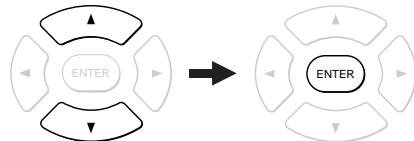
3) Make your selection in the same manner as step 1) then step 2).

   See page 50 , "TV Shape."
   See page 51 , "Audio Out Select."

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Table of Languages

Table of languages and their abbreviations

Abbreviation	Language
– – –	No alternate language
CHI (ZH)	Chinese
DUT (NL)	Dutch
ENG (EN)	English
FRE (FR)	French
GER (DE)	German
ITA (IT)	Italian
JPN (JA)	Japanese
KOR (KO)	Korean
MAY (MS)	Malay
SPA (ES)	Spanish
AA	Afar
AB	Abkhazian
AF	Afrikaans
AM	Amharic
AR	Arabic
AS	Assamese
AY	Aymara
AZ	Azerbaijani
BA	Bashkir
BE	Belorussian
BG	Bulgarian
BH	Bihari
BI	Bislama
BN	Bengali, Bangla
BO	Tibetan
BR	Breton
CA	Catalan
CO	Corsican
CS	Czech
CY	Welsh
DA	Danish
DZ	Bhutani
EL	Greek
EO	Esperanto
ET	Estonian
EU	Basque
FA	Persian
FI	Finnish
FJ	Fiji
FO	Faroese
FY	Frisian
GA	Irish
GD	Scottish Gaelic
GL	Galician

Abbreviation	Language
GN	Guarani
GU	Gujarati
HA	Hausa
HI	Hindi
HR	Croatian
HU	Hungarian
HY	Armenian
IA	Interlingua
IE	Interlingue
IK	Inupiak
IN	Indonesian
IS	Icelandic
IW	Hebrew
JI	Yiddish
JW	Javanese
KA	Georgian
KK	Kazakh
KL	Greenlandic
KM	Cambodian
KN	Kannada
KS	Kashmiri
KU	Kurdish
KY	Kirghiz
LA	Latin
LN	Lingala
LO	Laotian
LT	Lithuanian
LV	Latvian, Lettish
MG	Malagasy
MI	Maori
MK	Macedonian
ML	Malayalam
MN	Mongolian
MO	Moldavian
MR	Marathi
MT	Maltese
MY	Burmese
NA	Nauru
NE	Nepali
NO	Norwegian
OC	Occitan
OM	(Afan) Oromo
OR	Oriya
PA	Panjabi
PL	Polish
PS	Pashto, Pushto

Abbreviation	Language
PT	Portuguese
QU	Quechua
RM	Rhaeto-Romance
RN	Kirundi
RO	Rumanian
RU	Russian
RW	Kinyarwanda
SA	Sanskrit
SD	Sindhi
SG	Sango
SH	Serbo-Croatian
SI	Singhalese
SK	Slovak
SL	Slovenian
SM	Samoan
SN	Shona
SO	Somali
SQ	Albanian
SR	Serbian
SS	Siswati
ST	Sesotho
SU	Sundanese
SV	Swedish
SW	Swahili
TA	Tamil
TE	Telugu
TG	Tajik
TH	Thai
TI	Tigrinya
TK	Turkmen
TL	Tagalog
TN	Setswana
TO	Tongan
TR	Turkish
TS	Tsonga
TT	Tatar
TW	Twi
UK	Ukrainian
UR	Urdu
UZ	Uzbek
VI	Vietnamese
VO	Volapük
WO	Wolof
XH	Xhosa
YO	Yoruba
ZU	Zulu

Function setup

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Others

- ● **Before Calling Service Personnel**
- ● **Specifications**

Before Calling Service Personnel

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

Symptoms and correction

Symptom	Cause	Correction	Page
No power.	• The power plug is disconnected.	• Connect the power plug securely into the wall outlet.	**18**
The DVD video player turned off by itself.	• The automatic power off function turned the unit off.	• Press the PLAY button.	**27**
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 video player appears on the TV screen.	**26**
	• The video cable is not connected securely.	• Connect the video cable securely into the appropriate jacks.	**18, 19**
No sound.	• 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 video player.	**26**
	• The audio cable is not connected securely.	• Connect the audio cable securely into the appropriate jacks.	**18 − 23**
	• The audio receiver or TV is turned off.	• Turn on the equipment connected with the audio cable.	**26**
	• The setting of output sound format is incorrect.	• Select the proper audio setting.	**43, 48 51**
The playback picture has occasional distortion.	• The disc is dirty.	• Eject the disc and clean it.	**9**
	• It is in fast forward or fast reverse playback.	• Sometimes a small amount of picture distortion may appear. This is not a malfunction.	**−**
Brightness is unstable or noises are present in the playback pictures.	• The effect of copy protection.	• Connect the DVD video player directly to the TV. Avoid connecting the DVD video player to a VCR or TV/VCR combination.	**18**
The DVD video player does not start playback.	• No disc is inserted.	• Insert a disc.	**26**
	• An unplayable disc is inserted.	• Insert a playable disc. (Check the disc type and colour system.)	**10**
	• The disc is placed upside down.	• Place the disc with the playback side down.	**26**
	• The disc is not placed within the guide.	• Place the disc correctly inside the guide on the disc tray.	**26**
	• The disc is dirty.	• Clean the disc.	**9**
	• The parental lock function is set.	• Cancel the parental lock function or change the parental lock level.	**48, 54**
Playback does not follow the course of the disc's program.	• It is in the mode of repeat playback, memory playback, etc.	• These operations may prevent a proper progress of the contents.	**−**
Buttons do not work.	• Power supply fluctuations or other abnormalities such as static electricity may interrupt correct operations.	• Press and hold the ON/STANDBY button on the front panel for more than about 3 seconds. The DVD video player turns off. Press the button again to turn it on. If the buttons still do not work, disconnect the power plug and insert it into the wall outlet again.	**−**
The remote control does not work properly.	• The remote control is not pointed at the remote sensor of the DVD video player.	• Point the remote control at the remote sensor of the DVD video player.	**15**
	• The remote control is too far from the DVD video player.	• Operate the remote control within about 7 m.	**15**
	• The batteries in the remote control are exhausted.	• Replace the batteries with new ones.	**15**

Specifications

DVD video player / outputs / supplied accessories

DVD Video Player

Power supply	100-240 V AC, 50/60 Hz
Power consumption	17 W
Mass	2.4 kg
External dimensions	430 × 69 × 222 mm (W/H/D)
Signal system	PAL/3.58 NTSC
Laser	Semiconductor laser, wavelength 650/780 nm
Frequency range	DVD linear sound : 48 kHz sampling 4 Hz to 22 kHz 96 kHz sampling 4 Hz to 44 kHz
Signal-to-noise ratio	More than 112 dB
Audio dynamic range	More than 108 dB
Harmonic distortion	Less than 0.002 %
Wow and flutter	Below measurable level (less than ±0.001 % (W.PEAK))
Operating conditions	Temperature: 5 °C to 35 °C, Operation status: Horizontal

Outputs

Video output (SCART)	1.0 V (p-p), 75 Ω, SCART socket × 1
Video output (phono type)	1.0 V (p-p), 75 Ω, negative sync., pin jack × 1
S video output	(Y) 1.0 V (p-p), 75 Ω, negative sync., Mini DIN 4-pin × 1 (C) 0.3 V (p-p), 75 Ω
Component video output	(Y) 1.0 V (p-p), 75 Ω, negative sync., pin jack × 1 (P_B)/(P_R) 0.7 V (p-p), 75 Ω, pin jack × 2
Audio output (SCART)	2.0V (rms), 680 Ω, SCART socket × 1
Audio output (BITSTREAM/PCM OPTICAL)	Optical connector × 1
Audio output (BITSTREAM/PCM COAXIAL)	0.5V (p-p), 75 Ω, pin jack × 1
Audio output (ANALOG AUDIO OUT)	2.0 V (rms), 680 Ω, pin jacks (L, R) × 1

Supplied Accessories

Audio/video cable 1
Remote control (SE-R0049) 1
Batteries (R6) 2
Power cord 1

• Designs and specifications are subject to change without notice.

Others