



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.



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

Model No.

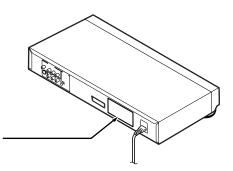
Serial No.

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 $\frac{1}{2}$ 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.

Location of the required label



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

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.

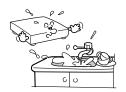
This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use and servicing. This unit is fully transistorized and 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.
- 12. Unplug this apparatus during lightning storms or when unused for long periods of time.

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IMPORTANT SAFETY INSTRUCTIONS

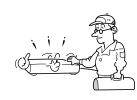
- 13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not 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.









- 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.
- Introduction



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.

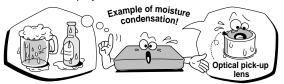
To obtain a clear picture

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.



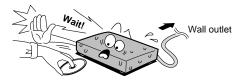
Moisture condensation occurs during the following cases.

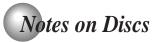
- When you bring the DVD video player directly from a cold place to a warm place.
- When you use the DVD video player in a room where you just turned on the heater, or a place where the cold wind from the air conditioner directly hits the unit.
- In summer, when you use the DVD video player in a hot 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.





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.

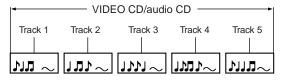
Structure of disc contents

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



VIDEO CD/audio CD



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.



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.

" \bigcirc " may appear on the TV screen during operation. A " \bigcirc " 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.

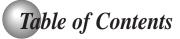
	Disc Mark	Contents	Disc Size	Maximum playback time
		Audio + video (moving pictures)	12 cm	Approx. 4 hours (single sided disc)
DVD video				Approx. 8 hours (double sided disc)
discs			8 cm	Approx. 80 minutes (single sided disc)
				Approx. 160 minutes (double sided disc)
VIDEO		Audio + video (moving pictures)	12 cm	Approx. 74 minutes
CDs			8 cm	Approx. 20 minutes
Audio		A 11	12 cm	Approx. 74 minutes
CDs		AUCIO	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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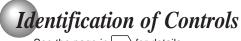
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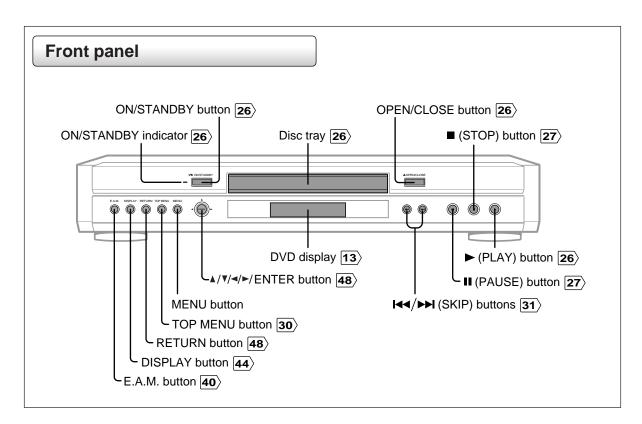
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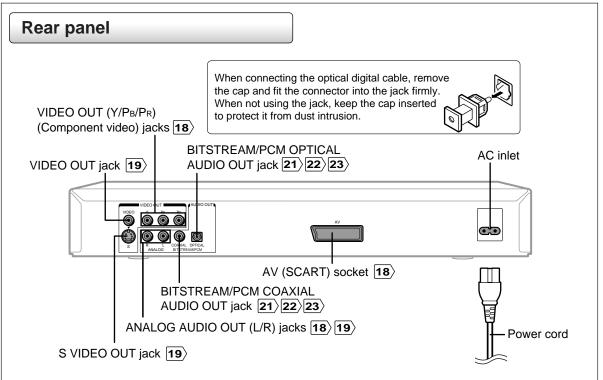
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See the page in \bigcirc for details.

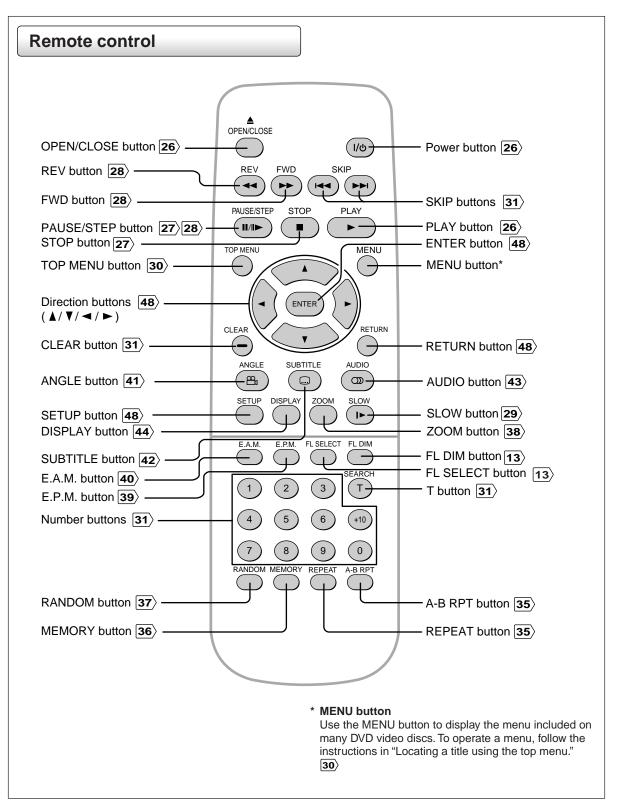




DVD display			e FL DIM button on the remote es the brightness of the display.
Play mode indicator	Total playing time	indicator	Normal Dimmed Off
	ber indicator	Track numb indicator	Random playback indicator
	unctional indicator ages, etc.)	I (indicates operatin	g status or Angle icon indicator Repeat playback indicator
When you start playback, the elap them to the title/chapter/track nur			
The indicators vary depending on the	kinds of discs you p	blay.	
DVD video disc		O CD	Audio CD
• During playback: Example DVD TITLE CHP Playing chapter 3 of title 2	During playback Example VCD Playin	TRK	During playback: Example CD Playing track 6
Some discs may not display chapter numbers or elapsed time.	Some discs may numbers or elap	not display track sed time.	

Identification of Controls (continued)

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



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 Open the cover. Insert batteries (R6 size). Angle: Make sure to match the + and - on the batteries to the marks inside the battery compartment. Close the cover. video player.

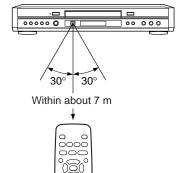
Notes on batteries

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.



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



- Distance: About 7 m from the front of the remote sensor
- 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
- 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

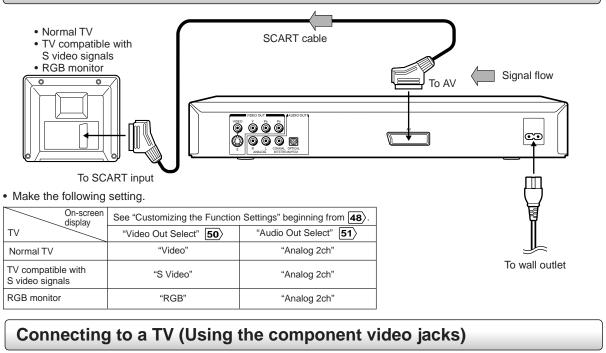


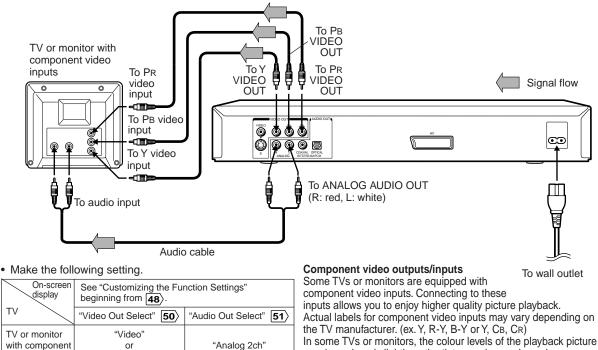
Connect the DVD video player to your TV.

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)





18

video inputs

"S Video'

may be reduced slightly or the tint may change. In such a case,

adjust the TV or monitor for optimum performance.

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) Signal flow TV equipped with an S video input <u>000</u> ۲ œ 000 To S video To audio f To S VIDEO OUT To ANALOG AUDIO OUT input input (R:red, L:white) S video cable Audio cable To wall outlet Normal TV Signal flow ø **ÖÖÖ** C. Ò 0 00 To audio To video input Ö (yellow) To VIDEO OUT Ę To ANALOG AUDIO OUT input (yellow) (R:red, L:white) Audio/video cable · Make the following setting. To wall outlet

On-screen display	See "Customizing the Function	Settings" beginning from $\boxed{48}$.
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"

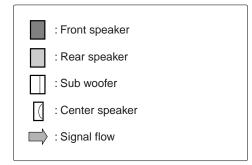
Notes

- 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.



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.



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.

Connecting to an amplifier equipped with a Dolby Digital decoder

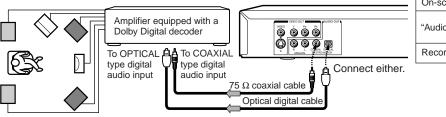
Dolby Digital

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		43



Connecting to an amplifier equipped with Dolby Pro Logic Surround

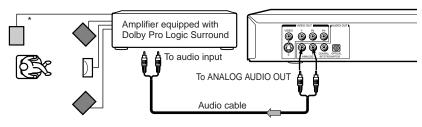
Dolby Pro Logic Surround

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.

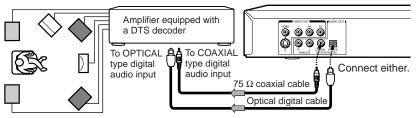
Connecting to Optional Equipment (continued)

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.

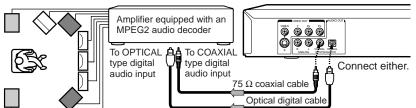
- Use DVD video discs or audio CDs encoded via the DTS recording system.
- Make the following setting.

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

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.



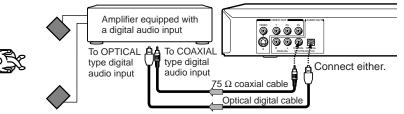
- Use DVD video discs encoded via the MPEG2 recording system.
- Make the following setting.

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

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

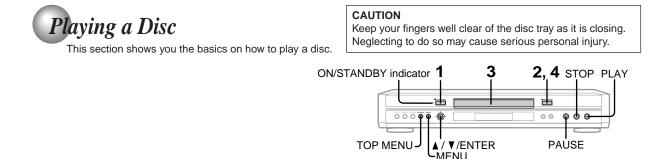
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Basic playback

Begin your operation.

- Playing a Disc
- Variable Speed Playback
- Locating a Desired Section

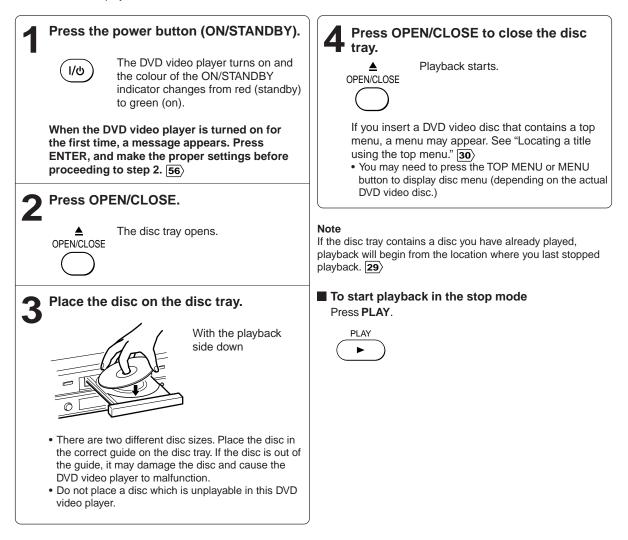
Playing an MP3 Encoded CD

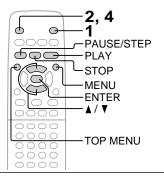


Basic playback

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.





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 IVD VCD CD

The **Decent** icons on the heading bar show the playable discs for the function described under that heading.

You can use this function with DVD video discs.
 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

• Sound is muted during still mode.

the PLAY button.

To resume normal playback, press

To stop playback

Press STOP.



To remove the disc Press 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

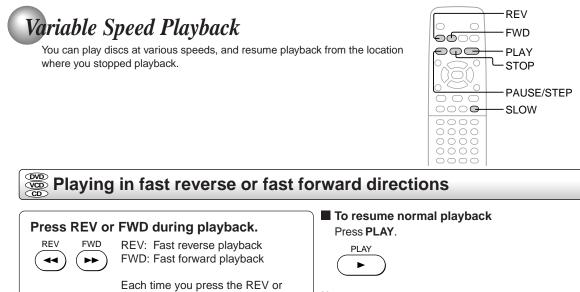
If you pause a picture of a DVD video disc and leave it still for a long while, the screen saver of the DVD video player automatically appears (when "Screen Saver" is set to "On" **53**). To turn off the screen saver, press the PLAY button.

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.



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.

Playing frame by frame

changes.

Press PAUSE/STEP during still playback.

PAUSE/STEP

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

FWD button, the playback speed

To resume normal playback Press PLAY.



Note

The sound is muted during frame by frame playback.

Blaying in slow-motion

Press SLOW during playback.



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

To resume normal playback Press PLAY.



Notes

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

Resuming playback from the same location



Press 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.



The DVD video player's memory is cleared.

2 Press PLAY.



Playback starts from the beginning of the current title.

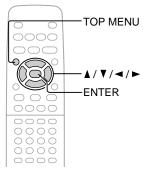
Playback starts from the beginning of the disc.

 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.

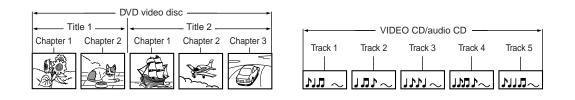
Notes

- 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.

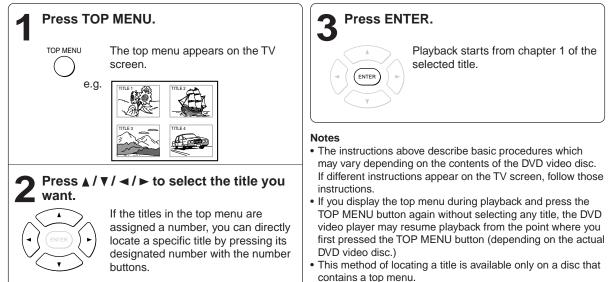




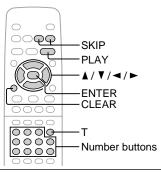
Normally, DVD video discs are divided into titles, and the titles are sub-divided into chapters. VIDEO CDs and audio CDs are divided into tracks. You can quickly locate any specific title, chapter, or track.



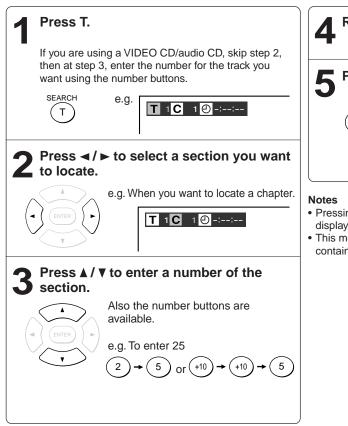
Locating a title using the top menu



 Instruction notes of discs may refer to the button that displays the top menu as TITLE button.



Every section by entering the corresponding number



4 Repeat steps 2 and 3 if necessary. 5 Press PLAY or ENTER. PLAY PLAY PLAY PLAY PLAY Playback starts from the selected section.

- 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.

Every series of the series of

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

Playback starts from the selected chapter or track.



To locate succeeding chapters or tracks.

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 are or by 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 a or b 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.



You can play MP3 files on this DVD video player.

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.

Place a CD that contains MP3 files on the disc tray.	 Notes Some discs may not permit this operation. If you stop playback by pressing the STOP button, and ther press the PLAY button, playback will start from the beginnin of the track. The SKIP 31, REPEAT 35 and RANDOM 37 functions are also available. 	
2 Press OPEN/CLOSE to load the disc. A Playback starts. OPEN/CLOSE		
3 To stop playback, press STOP.		
To pause playback Press PAUSE/STEP during playback.		
PAUSE/STEP To resume normal playback, press the	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	
Selecting a track (file) in the disc	files). Given the fact that technology in this area is still maturing, Toshiba cannot guarantee that all genre of	
 Press the DISPLAY button. Select the MP3 icon using the ◄/► buttons then press the ENTER button. A list of tracks appears. 	The technical criteria set out in this owner's manual are meant as a guide only.	
 3 Press the ▲ / ▼ / ◄ / ► buttons to select a track you want to play. The current track being played is highlighted in 	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	

2

3

PAUSE/STEP

Ă/▼/◀/► ENTER

DISPLAY

Ф

ഫ്രവ

Q

Permission should always be sought from the copyright

The current track being played is highlighted in green.

4 Press the ENTER button to begin playback of the selected track.

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owner.

32

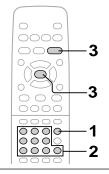
Advanced playback

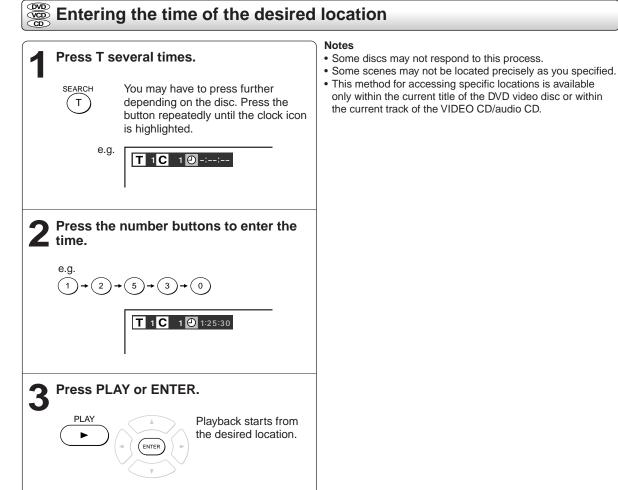
Customizing the performance of your DVD video player.

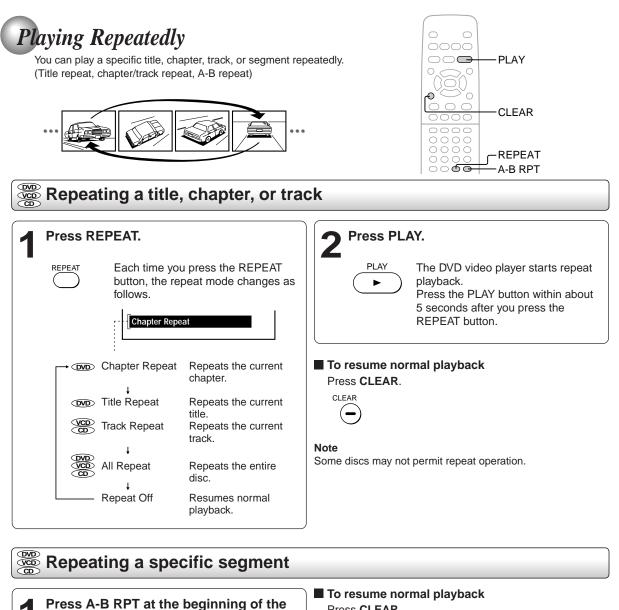
- Accessing a Specific Location Directly
- Playing Repeatedly
- Playing in a Favorite Order
- Playing in Random Order
- Zooming a Picture
- Selecting the Picture Enhancement (E.P.M.)
- Selecting the Sound Enhancement (E.A.M.)
- Selecting the Camera Angle
- Selecting Subtitles
- Selecting a Language
- Operating in the On-screen Display Mode



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







Press CLEAR.



Notes

segment (point A) you want to play

Press A-B RPT again at the end of the

The DVD video player automatically

returns to point A and starts repeat playback of the selected segment

repeatedly.

segment (point B).

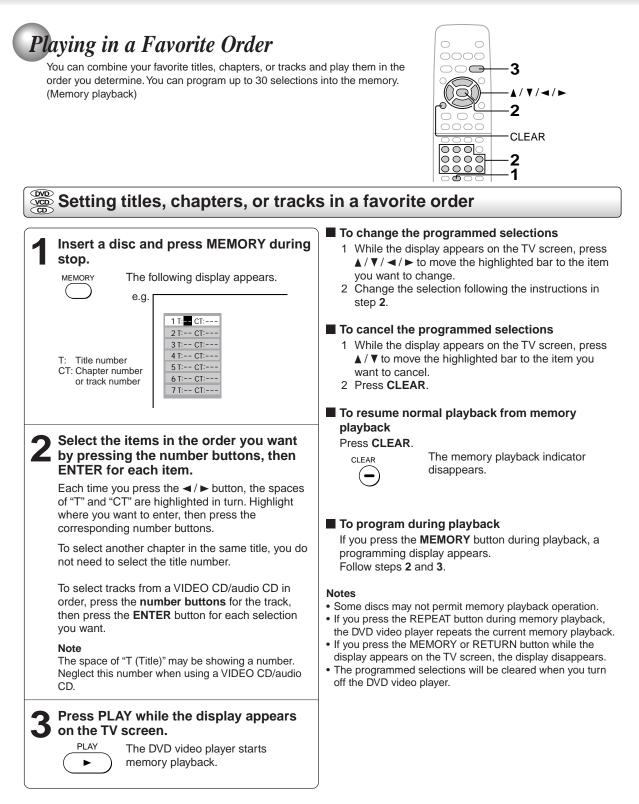
(A-B).

A-B RPT

A-B RPT

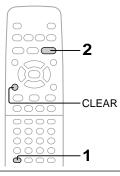
- Some discs may not permit A-B repeat operation.
- You cannot set the A-B repeat function for a segment that includes multiple camera angles $|\mathbf{41}\rangle$.
- You can specify a segment only within the current title or track (VIDEO CD).
- There may be a slight difference between point A and the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

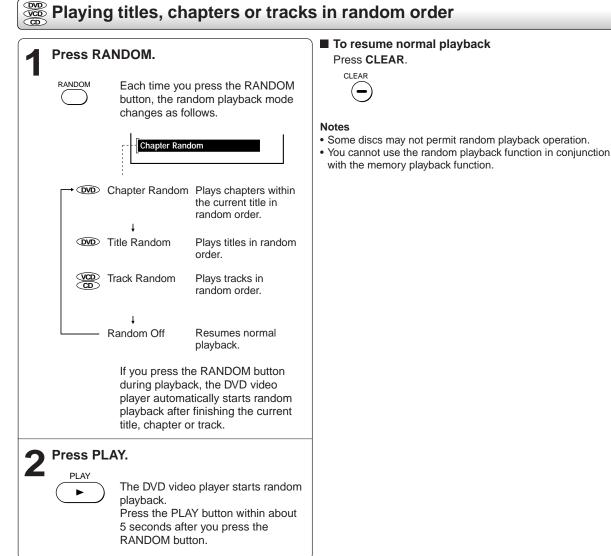
Advanced playback

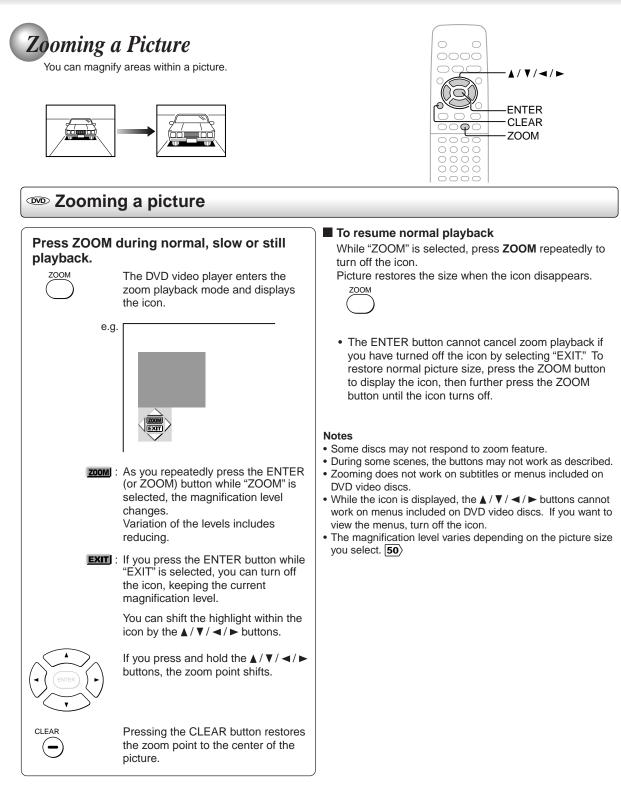


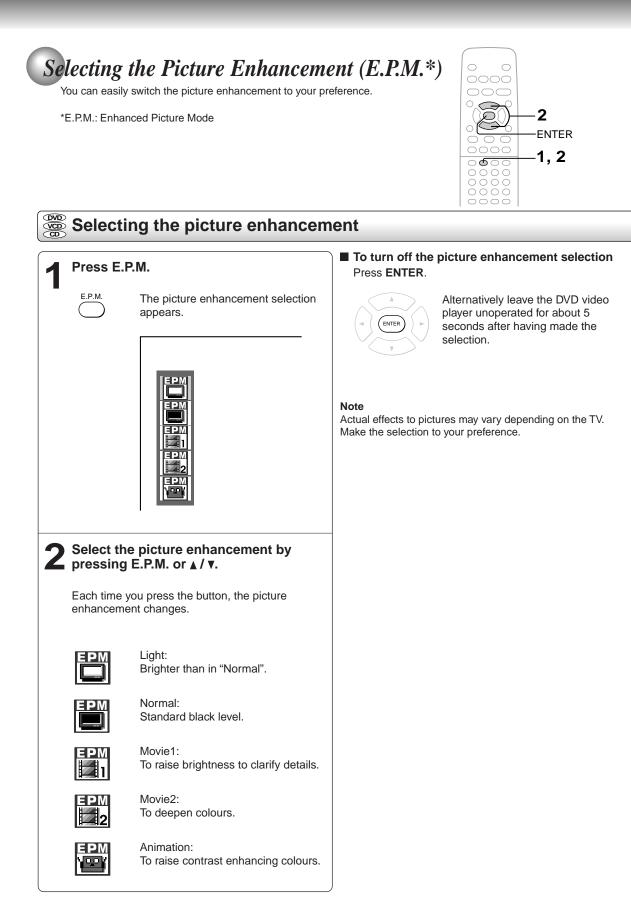
Playing in Random Order

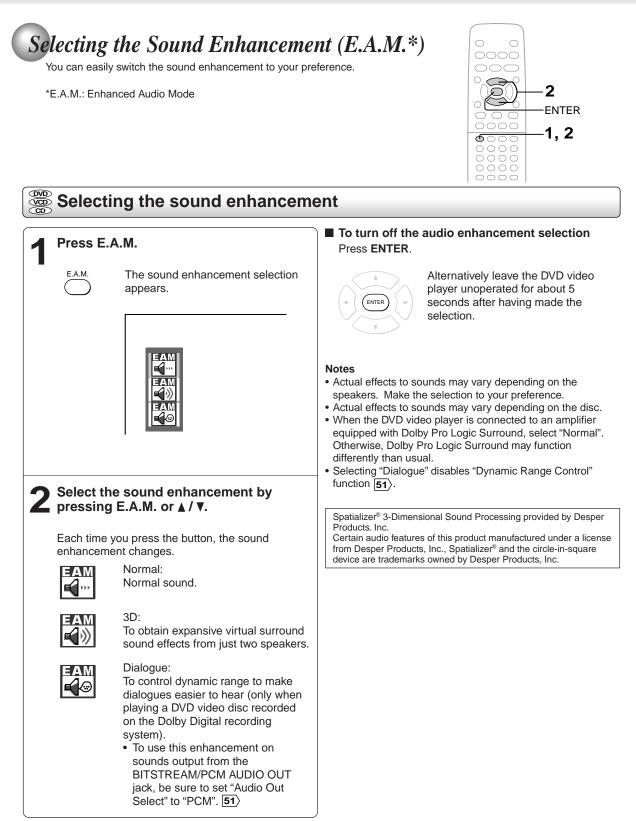
You can play titles, chapters within a title, or tracks in random order. (Random playback)





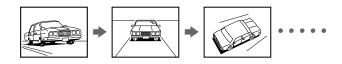




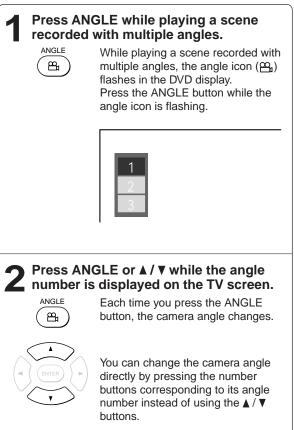


Selecting the Camera Angle

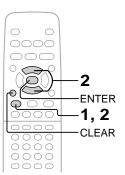
If the scene was recorded from multiple angles, you can easily change the camera angle of the scene you are watching.



Changing the camera angle

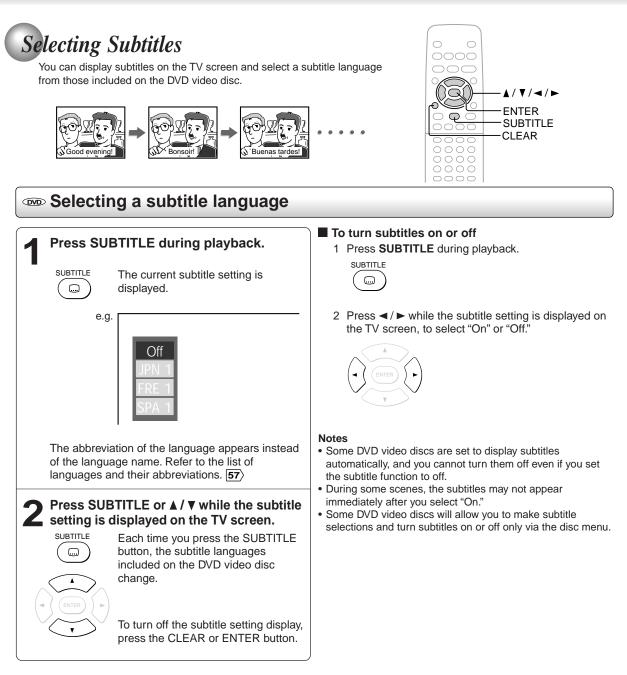


To turn off the display, press the CLEAR or ENTER button.



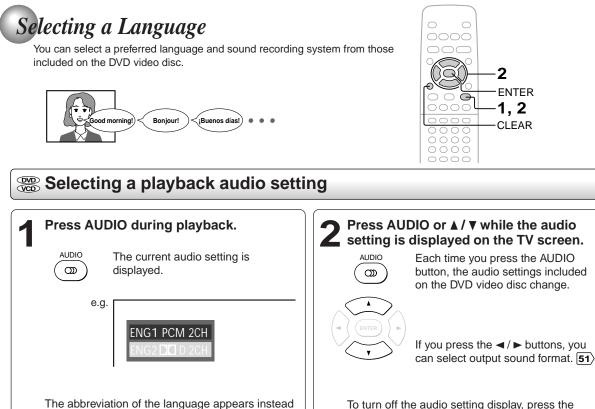
Notes

- 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.



Notes

- When you turn on the DVD video player or replace a disc, the player returns to the initial default setting <u>52</u>.
 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.



Advanced playback

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

Selecting sound channels of VIDEO CDs

of the language name. Refer to the list of

languages and their abbreviations. $[57\rangle$

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



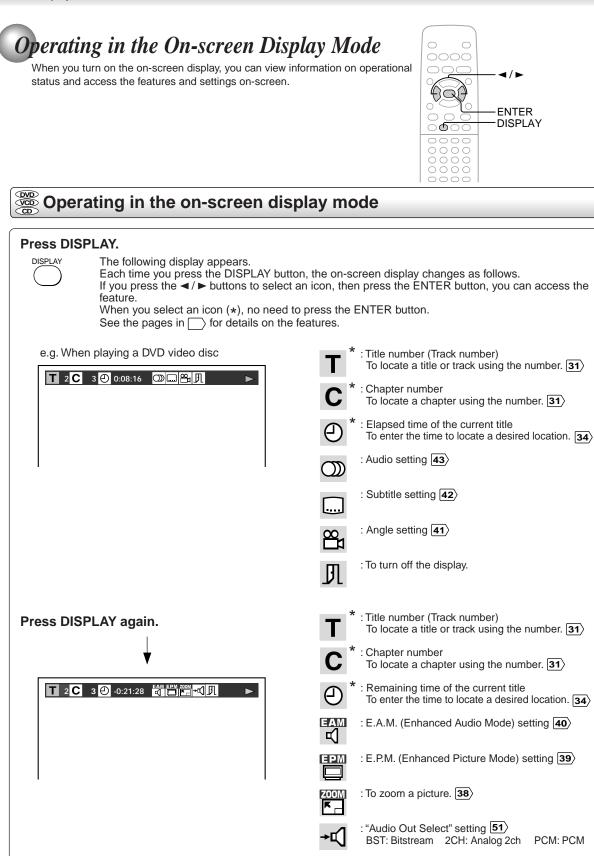
Notes

- 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)

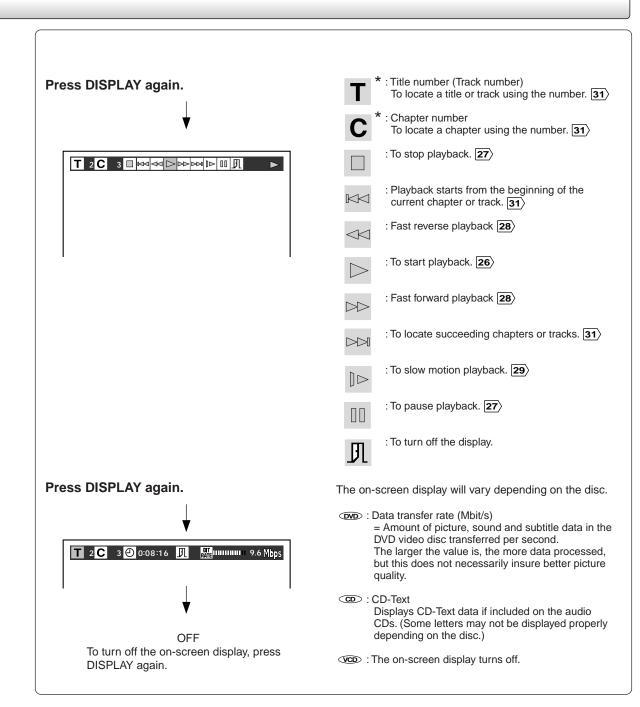
			Audio selection from the menu $\boxed{48}$ and output jacks on the rear panel					
Discs	Recording system		"Bitsti	ream"	"Analog 2ch"		"PCM"	
DISCS			BITSTREAM/PCM jack	ANALOG AUDIO OUT jacks	BITSTREAM/PCM jack	ANALOG AUDIO OUT jacks	BITSTREAM/PCM jack	ANALOG AUDIO OUT jacks
	Dolby	Digital	Bitstream	48 kHz/20 bit	Bitstream	48 kHz/20 bit	48 kHz/16 bit	48 kHz/20 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/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
DVD video		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
discs	I I I I I I I I I I I I I I I I I I I	96 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	_	96 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit
uioto		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
	D	TS	Bitstream	_	Bitstream	—	—	_
	MPEG1	, MPEG2	Bitstream	48 kHz/16 bit	Bitstream	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit
VIDEO CDs	MP	EG1	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
	D	TS	Bitstream	(Noise)	Bitstream	(Noise)	Bitstream	(Noise)

: 3D sound enhancement can function.



IJ.

: To turn off the display.



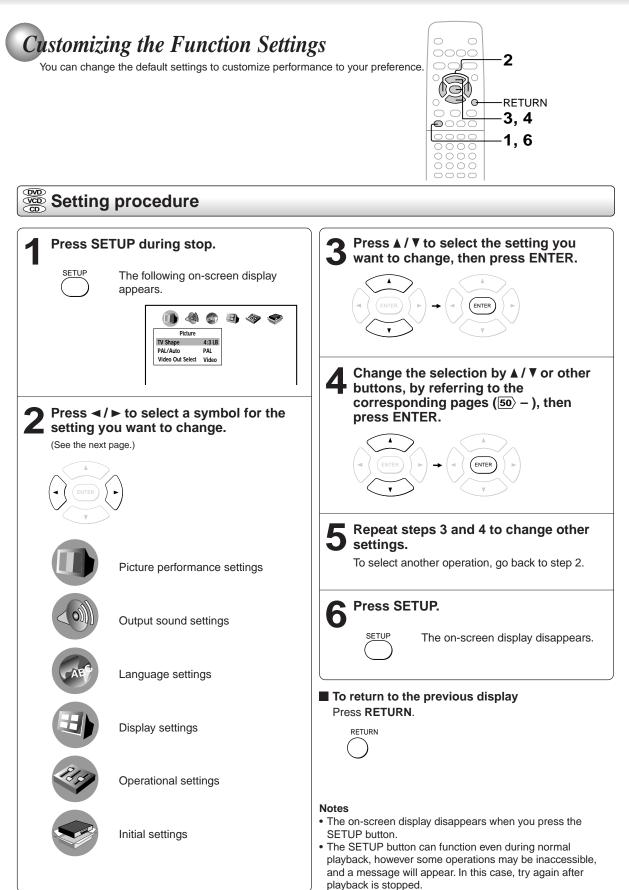
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Function Setup

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

• Customizing the Function Settings

• Table of Languages



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



Audio Out Select	888	To select an output sound format corresponding to your system connection.	51
Dynamic Range Control	ØØ	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	888	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	BBB	To turn on or de-activate the operational status display on the TV screen.	53
Background	ଖିଶ୍ଚି	To select the background colour or background picture.	53
Screen Saver	DVD	To turn the screen saver on or off.	53

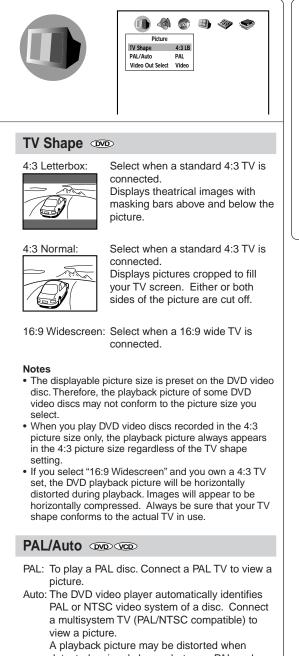


Pause/Still	DVD	To select the resolution of still pictures. (Field/Frame)	54
Parental Lock	DVD	To turn the parental lock function on or off.	54
Title Stop	DVD	To turn on or off a feature that automatically stops playback after a title has been viewed.	55
PBC	VCD	To use the menu screen when playing a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



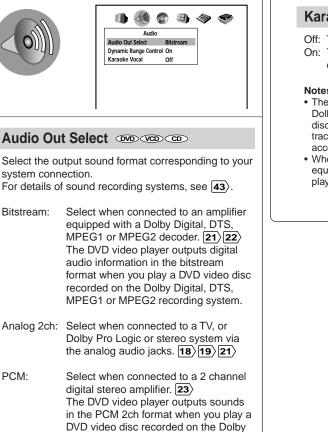
On-screen Language TV Shape Audio Out Select	To install the initial system setting.	56
--	--	----

Setting details



detected a signal change between PAL and NTSC on the disc.

• 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.



Dynamic Range Control 👓

system.

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

Notes

system connection.

Bitstream:

Analog 2ch:

PCM:

· This function works only during playback of Dolby Digital recorded discs.

Digital, MPEG1 or MPEG2 recording

 The level of Dynamic Range Reduction may differ depending on the DVD video disc.

Karaoke Vocal on

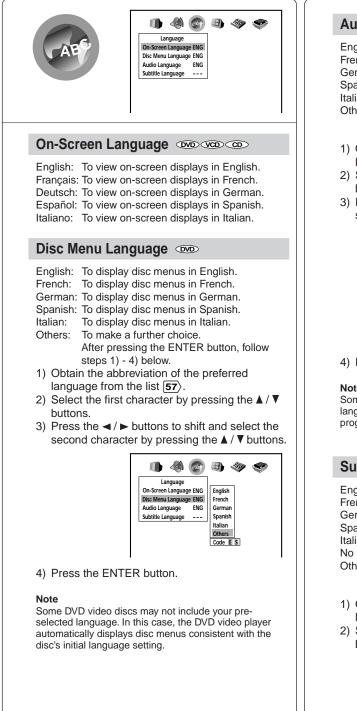
Off: The primary vocal is not output.

On: The primary vocal is output when it is recorded on the disc.

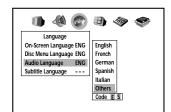
Notes

- · 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.

Setting details



Audio L	anguage 💿
English [.]]	To play sound tracks in English.
0	To play sound tracks in French.
	To play sound tracks in German.
	To play sound tracks in Spanish.
	To play sound tracks in Italian.
	To make a further choice.
A	After pressing the ENTER button, follow
s	steps 1) - 4) below.
1) Obtain	the abbreviation of the preferred
langua	ge from the list 57).
•	the first character by pressing the \blacktriangle / \blacksquare
buttons	S
3) Press t	the \blacktriangleleft / \blacktriangleright buttons to shift and select the
	character by pressing the \blacktriangle / \checkmark buttons.



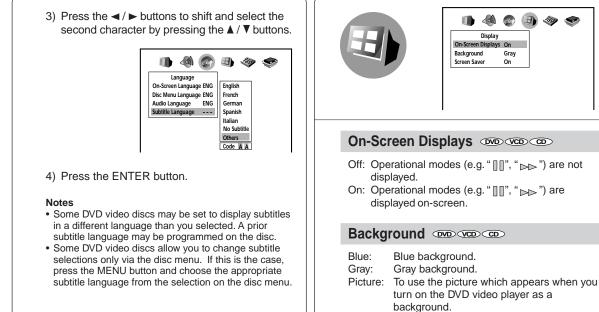
4) Press the ENTER button.

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 💿

glish:	To display subtitles in English.
ench:	To display subtitles in French.
erman:	To display subtitles in German.
anish:	To display subtitles in Spanish.
lian:	To display subtitles in Italian.
Subtitle:	To disable subtitles.
hers:	To make a further choice.
	After pressing the ENTER button,
	follow steps 1) - 4) below.
Obtain th	e abbreviation of the preferred
language	from the list 57 .
Select the	e first character by pressing the \blacktriangle / \checkmark
buttons.	

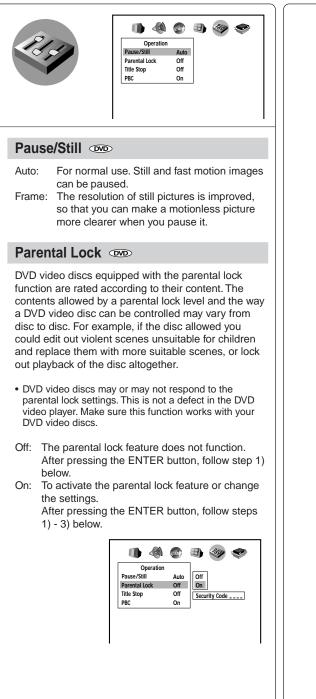


Jacket: To use the jacket picture included on some discs as a background. If it is not included, a gray background will be substituted.

Screen Saver 💿

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

Setting details



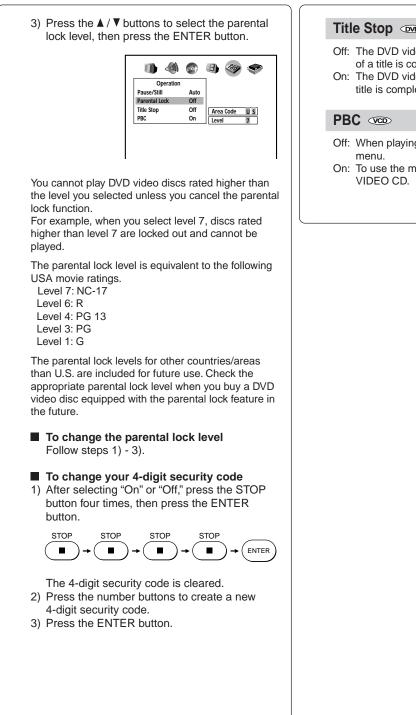
 Press the number buttons to create a personal 4-digit security code, then press the ENTER button.

If you make a mistake before pressing the ENTER button, press the CLEAR button and enter your 4-digit security code again.

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

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



Title Stop 💿

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

Setting details

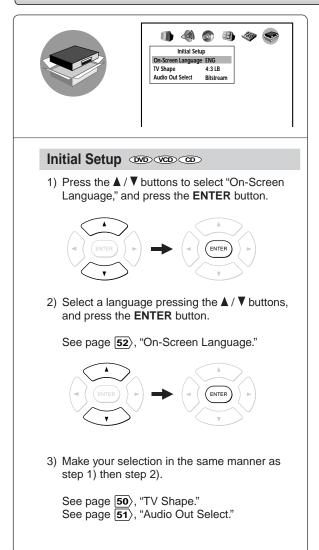


Table of Languages

Table of languages and their abbreviations

Abbreviation	Language	Abbreviation	Language	Abbreviation	Language
	No alternate	GN	Guarani	PT	Portuguese
	language	GU	Gujarati	QU	Quechua
CHI (ZH)	Chinese	HA	Hausa	RM	Rhaeto-Romance
DUT (NL)	Dutch	HI	Hindi	RN	Kirundi
ENG (EN)	English	HR	Croatian	RO	Rumanian
FRE (FR)	French	HU	Hungarian	RU	Russian
GER (DE)	German	HY	Armenian	RW	Kinyarwanda
ITA (IT)	Italian	IA	Interlingua	SA	Sanskrit
JPN (JA)	Japanese	IE	Interlingue	SD	Sindhi
KOR (KO)	Korean	IK	Inupiak	SG	Sango
MAY (MS)	Malay	IN	Indonesian	SH	Serbo-Croatian
SPA (ES)	Spanish	IS	Icelandic	SI	Singhalese
AÀ	Afar	IW	Hebrew	SK	Slovak
AB	Abkhazian	JI	Yiddish	SL	Slovenian
AF	Afrikaans	JW	Javanese	SM	Samoan
AM	Amharic	KA	Georgian	SN	Shona
AR	Arabic	KK	Kazakh	SO	Somali
AS	Assamese	KL	Greenlandic	SQ	Albanian
AY	Aymara	KM	Cambodian	SR	Serbian
AZ	Azerbaijani	KN	Kannada	SS	Siswati
BA	Bashkir	KS	Kashmiri	ST	Sesotho
BE	Belorussian	KU	Kurdish	SU	Sundanese
BG	Bulgarian	KY	Kirghiz	SV	Swedish
BH	Bihari	LA	Latin	SW	Swahili
BI	Bislama	LN	Lingala	TA	Tamil
BN	Bengali, Bangla	LO	Laotian	TE	Telugu
BO	Tibetan	LT	Lithuanian	TG	Tajik
BR	Breton	LV	Latvian, Lettish	TH	Thai
CA	Catalan	MG	Malagasy	TI	Tigrinya
CO	Corsican	MI	Maori	ТК	Turkmen
CS	Czech	MK	Macedonian	TL	
CY	Welsh	ML			Tagalog Setswana
DA	Danish	MN	Malayalam Mongolian	ТО	
DA DZ	Bhutani	MO	Moldavian	TR	Tongan Turkish
EL	Greek	MR	Marathi	TS	
EO		MT		TT	Tsonga
	Esperanto		Maltese		Tatar
ET	Estonian	MY	Burmese	TW	Twi
EU	Basque	NA	Nauru	UK	Ukrainian
FA	Persian	NE	Nepali	UR	Urdu
FI	Finnish	NO	Norwegian	UZ	Uzbek
FJ	Fiji	OC	Occitan	VI	Vietnamese
FO	Faroese	OM	(Afan) Oromo	VO	Volapük
FY	Frisian	OR	Oriya	WO	Wolof
GA	Irish	PA	Panjabi	XH	Xhosa
GD	Scottish Gaelic	PL	Polish	YO	Yoruba
GL	Galician	PS	Pashto, Pushto	ZU	Zulu

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Others

Before Calling Service
 Personnel

Specifications



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	The disc is dirty.	Eject the disc and clean it.	9
occasional distortion.	 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	No disc is inserted.	Insert a disc.	26
not start playback.	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



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	$430 \times 69 \times 222 \text{ mm} (W/H/D)$	
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 \times 1	
Video output (phono type)	1.0 V (p-p), 75 Ω , negative sync., pin jack \times 1	
S video output	(Y) 1.0 V (p-p), 75 $\Omega,$ negative sync., Mini DIN 4-pin \times 1 (C) 0.3 V (p-p), 75 Ω	
Component video output	(Y) 1.0 V (p-p), 75 Ω , negative sync., pin jack \times 1 (P _B)/(P _R) 0.7 V (p-p), 75 Ω , pin jack \times 2	
Audio output (SCART)	2.0V (rms), 680 Ω , SCART socket \times 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 $\Omega,$ pin jacks (L, R) \times 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.

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