TOSHIBA

OWNER'S MANUAL
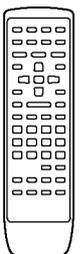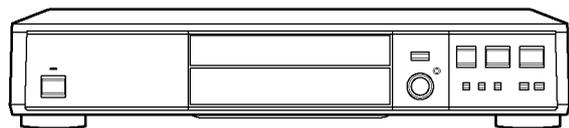
DVD VIDEO | COMPACT disc DIGITAL VIDEO | COMPACT disc DIGITAL AUDIO | SPATIALIZER® N-2-2™ | DOLBY DIGITAL | dts DIGITAL OUT

DVD VIDEO PLAYER
SD-3750
SD-K700

SAFETY PRECAUTIONS

WARNING
RISK OF ELECTRIC SHOCK
DO NOT OPEN

AVIS RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR

WARNING : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USERSERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
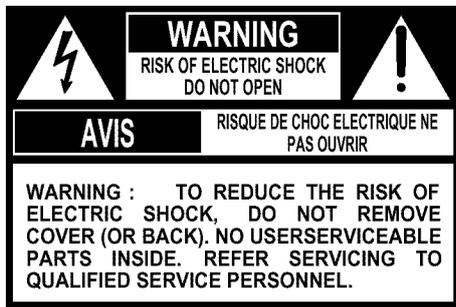
The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

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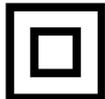
The symbol for CLASS II (Double Insulation)

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: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

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.

FCC NOTICE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rule. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING: Changes or modifications made to this equipment, not expressly approved by Toshiba, or parties authorized by Toshiba, could void the user's authority to operate the equipment.

The instructions shall state that an ALL-POLE MAINS SWITCH with a contact separation of at least 3 mm in each pole shall be incorporated in the electrical installation of the building.

CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

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

Model No. _____   Serial No. _____

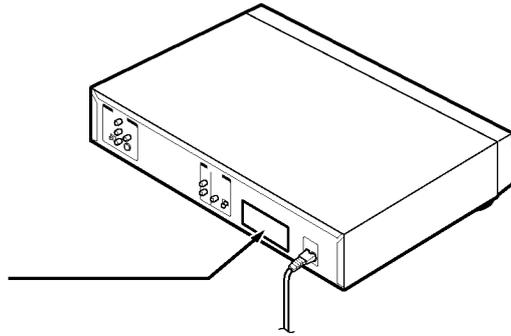Retain this information for future reference.

Location of the required label

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.
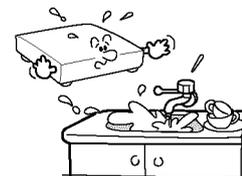
1. Read these instructions.
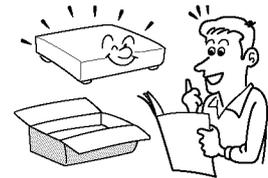
2. Keep these instructions.
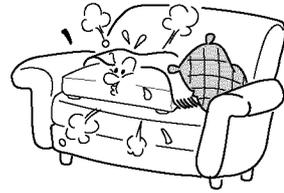
3. Heed all warnings.

4. Follow all instructions.

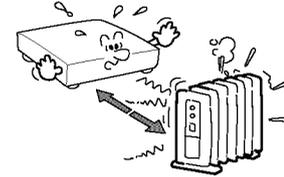5. Do not use this apparatus near water.

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. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
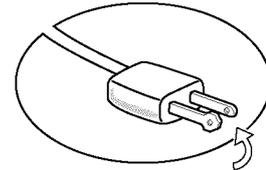
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

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

12. 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

IMPORTANT SAFETY INSTRUCTIONS

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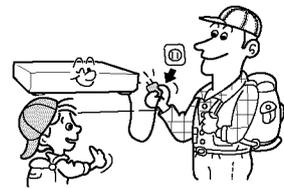
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate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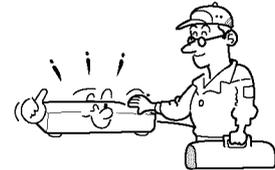
15. When you use headphones, keep the volume at a moderate level. If you use the headphones continuously with high volume sound, it may cause hearing damage.

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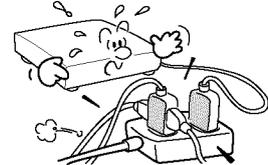
17. Never insert objects of any kind into this apparatus through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the apparatus.

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

19. 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.
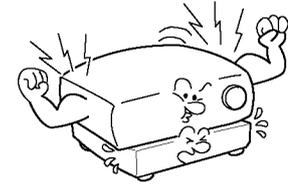
20. Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and apparatus malfunction.

Precautions

Notes on handling

- When shipping the DVD 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 player. Do not leave rubber or plastic products in contact with the DVD player for a long time. They will leave marks on the finish.
- The top and rear panels of the DVD player may become warm after a long period of use. This is not a malfunction.
- When the DVD player is not in use, be sure to remove the disc and turn off the power.
- If you do not use the DVD player for a long period, the unit may not function properly in the future. Turn on and use the DVD player occasionally.

Notes on locating

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

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

To obtain a clear picture

The DVD 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.

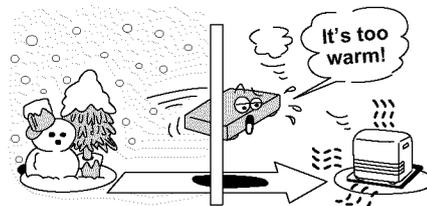## Notes on moisture condensation

Moisture condensation damages the DVD 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 player.
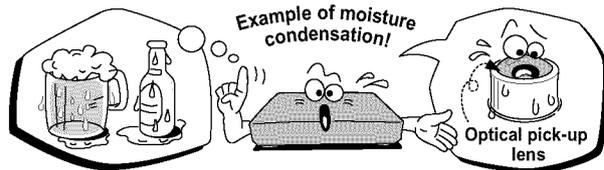

- **Moisture condensation occurs during the following cases.**

- When you bring the DVD player directly from a cold place to a warm place.
- When you use the DVD 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 player in a hot and humid place just after you move the unit from an air conditioned room.
- When you use the DVD player in a humid place.

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

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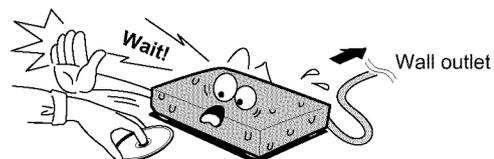
Notes on Discs

On handling discs

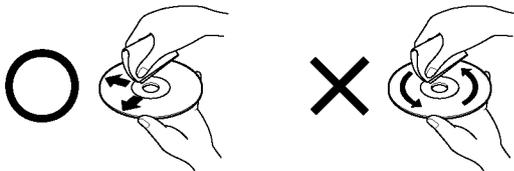● Do not touch the playback side of the disc.

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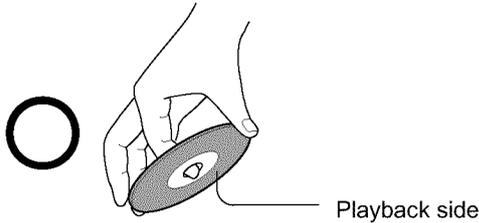
● Do not attach paper or tape to discs.

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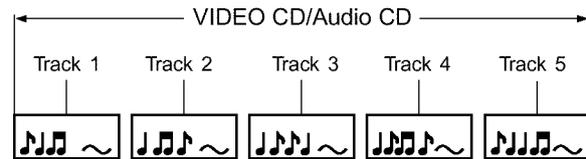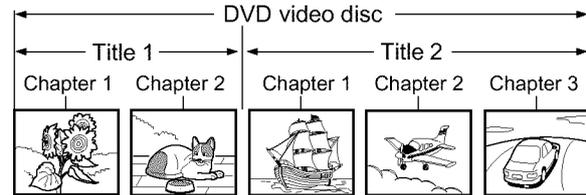
● If you cannot wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth and finish with a dry cloth.
● Do not use any type of solvent such as thinner, benzine, commercially available cleaners or antistatic spray for vinyl LPs. It may damage the disc.

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/audio CDs are divided into tracks.

|← ——————————— DVD video disc ——————————— →|
|← — Title 1 — →|← ——— Title 2 ——— →|
| Chapter 1 | Chapter 2 | Chapter 1 | Chapter 2 | Chapter 3 |

|← ——————————— 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.

Notes on Discs (continued)

About this owner's manual

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

Notes on region numbers

The region number of this DVD player is 1. 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 player will display a message on-screen.)

On VIDEO CDs

This DVD 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 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 player can play the following discs.

	Disc Mark	Contents	Disc Size
DVD video discs	**DVD** VIDEO **DVD** VIDEO	video (moving pictures) + Audio	12 cm
			8 cm
VIDEO CDs	COMPACT disc DIGITAL VIDEO	video (moving pictures) + Audio	12 cm
			8 cm
Audio CDs	COMPACT disc DIGITAL AUDIO	Audio	12 cm
			8 cm (CD single)

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

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

Table of Contents

Identification of Controls

See the page in ☐⟩ for details.

Front panel

POWER indicator 26⟩

OPEN/CLOSE button 26⟩

PAUSE button 27⟩

STOP button 27⟩

Disc tray 26⟩

PLAY button 26⟩

DVD display 13⟩

SKIP buttons 31⟩

POWER button 26⟩

RETURN button 56⟩

▲ / ▼ / ◄ / ► / ENTER button 56⟩

MENU button

NAVI button 48⟩

TOP MENU button 30⟩

Rear panel

ColorStream® (Component video)
VIDEO OUT jacks (Y/PB/PR) 19⟩

2CH AUDIO OUT jacks 18⟩ 19⟩

BITSTREAM/PCM COAXIAL (DIGITAL)
AUDIO OUT jack 21⟩ 22⟩ 23⟩

VIDEO OUT jack 18⟩

AC inlet

S VIDEO OUT jack 18⟩

BITSTREAM/PCM OPTICAL (DIGITAL)
AUDIO OUT jack 21⟩ 22⟩ 23⟩

SELECT (I/P) switch
19⟩

Power cord

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.
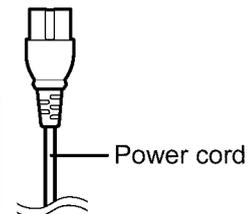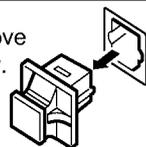
DVD display

■ **Repeated pressing of the FL DIMMER button on the remote control changes the brightness of the display.**

FL DIMMER   Normal ——► Dimmed ——► Off

Remaining time/elapsed time indicators

Chapter/track number indicator

Title number indicator

Memory playback indicator

Play mode indicator

Random playback indicator

TITLE   CHP   TRK   REMAIN   MEMORY   RANDOM   A-B

DVD

VCD

VIDEO CD/CD indicator

DVD indicator

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

Angle icon indicator

Repeat playback indicator

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 Elapsed time of of title 2 the current title	**Playing track 6 Elapsed time of the current track**	**Playing track 6 Elapsed time of the current track**
• Some discs may not display chapter numbers. • A time indication not accompanied with a chapter number shows elapsed time of a segment within the current title.	Some discs may not display track numbers or elapsed time.	
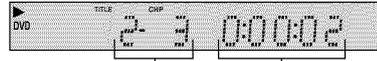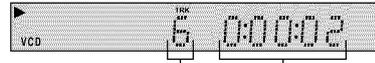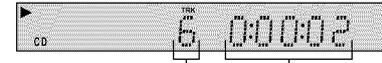
Identification of Controls (continued)

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

Remote control

OPEN/CLOSE button 26

FL DIMMER button 13

ZOOM buttons 38

QUICK button 47

TOP MENU button 30

ENTER button 56

Direction buttons 56
(▲/▼/◄/►)

CLEAR button 31

PAUSE/STEP button 27

SKIP buttons 31

Number buttons 31

ANGLE button 40

RANDOM button 37

SUBTITLE button 41

MEMORY button 36

Power button 26

SETUP button 56

E.A.M button 39

NAVI button 48

MENU button*

V-REMOTE button 46

RETURN button 56

STOP button 27

PLAY button 26

FWD button 28

REV button 28

T button 31

SLOW buttons 29

COLORSTREAM SELECTOR button 19

A-B RPT button 35

AUDIO button 42

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

Loading batteries

1 Open the cover.
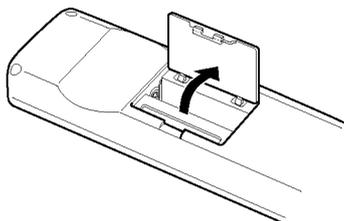
2 Insert batteries (AA size).
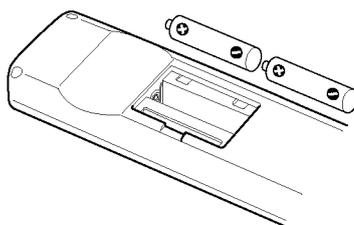
Make sure to match the + and – on the batteries to the marks inside the battery compartment.

3 Close the cover.
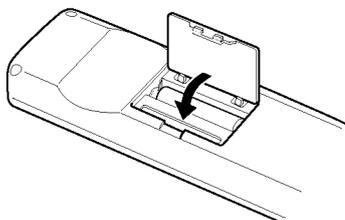
Notes on batteries

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 (23 feet)
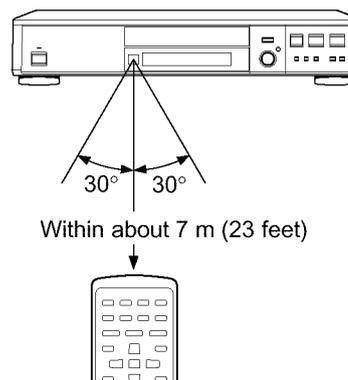
Distance: About 7 m (23 feet) from the front of the remote sensor
Angle: About 30° in each direction of the front of the remote sensor

* Do not expose the remote sensor of the DVD 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 player via the remote control.

Notes on the remote control
• Direct the remote control at the remote sensor of the DVD 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.

Connections

Read this chapter first to make all necessary preparations.

- Connecting to a TV
- Connecting to an audio system and TV equipped with component video inputs
- 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 player to your TV.

For details of output sound, see 43⟩.

Connecting to a TV
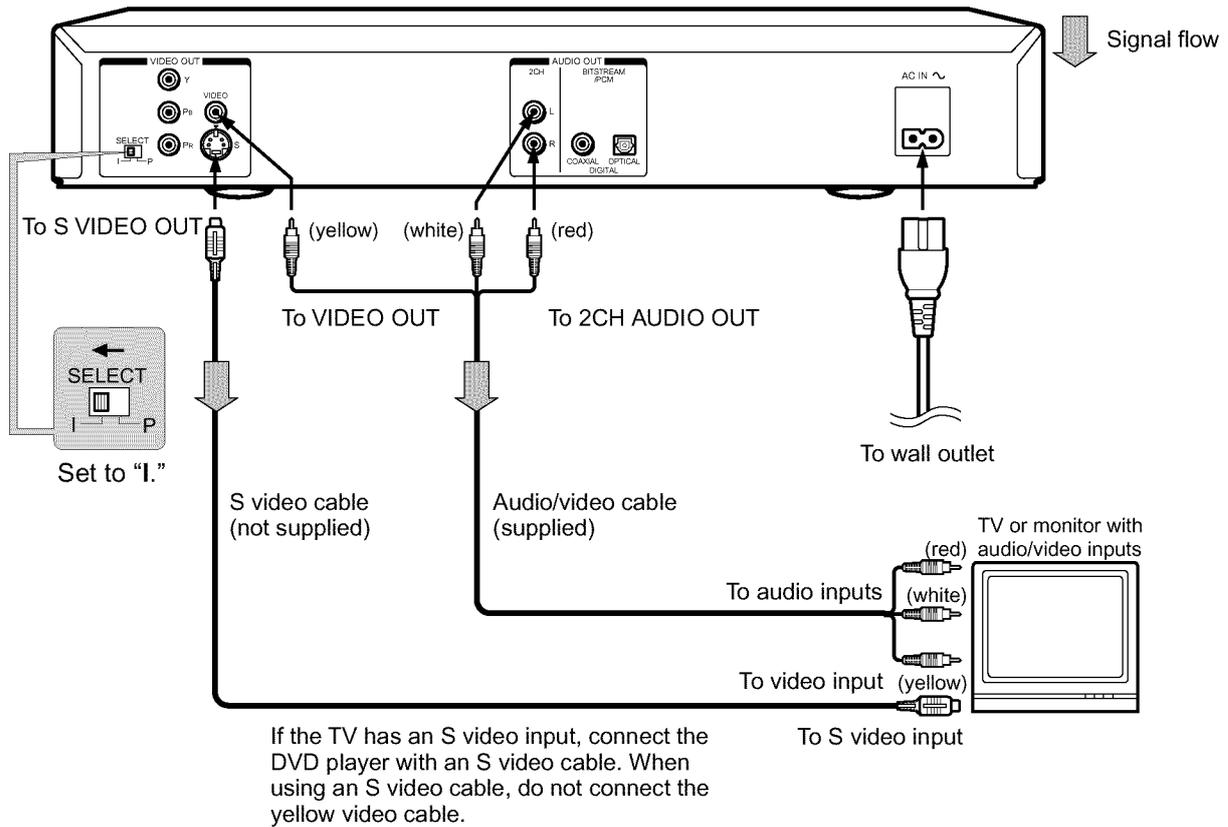
Signal flow

To S VIDEO OUT

(yellow) (white) (red)

To VIDEO OUT   To 2CH AUDIO OUT

SELECT

Set to "I."

To wall outlet

S video cable
(not supplied)

Audio/video cable
(supplied)

TV or monitor with
(red) audio/video inputs

To audio inputs (white)

To video input (yellow)

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

To S video input

- Make the following setting.

On-screen display	Select:	Page
"Audio Out Select"	"Bitstream" or "PCM"	56⟩ 59⟩

Notes
- Refer to the owner's manual of the connected TV as well.
- When you connect the DVD player to your TV, be sure to turn off the power and unplug both units from the wall outlet before making any connections.
- If your television set has one audio input, connect the left and right audio outputs of the DVD player to a Y cable adapter (not supplied) and then connect to your TV.
- Connect the DVD player directly to your TV. If you connect the DVD player to a VCR, TV/VCR combination or video selector, the playback picture may be distorted as DVD video discs are copy protected.

INTERLACED outputs/inputs (ColorStream®)

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, CB, CR)
In some TVs or monitors, the color 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.

PROGRESSIVE outputs/inputs (ColorStream®Pro)

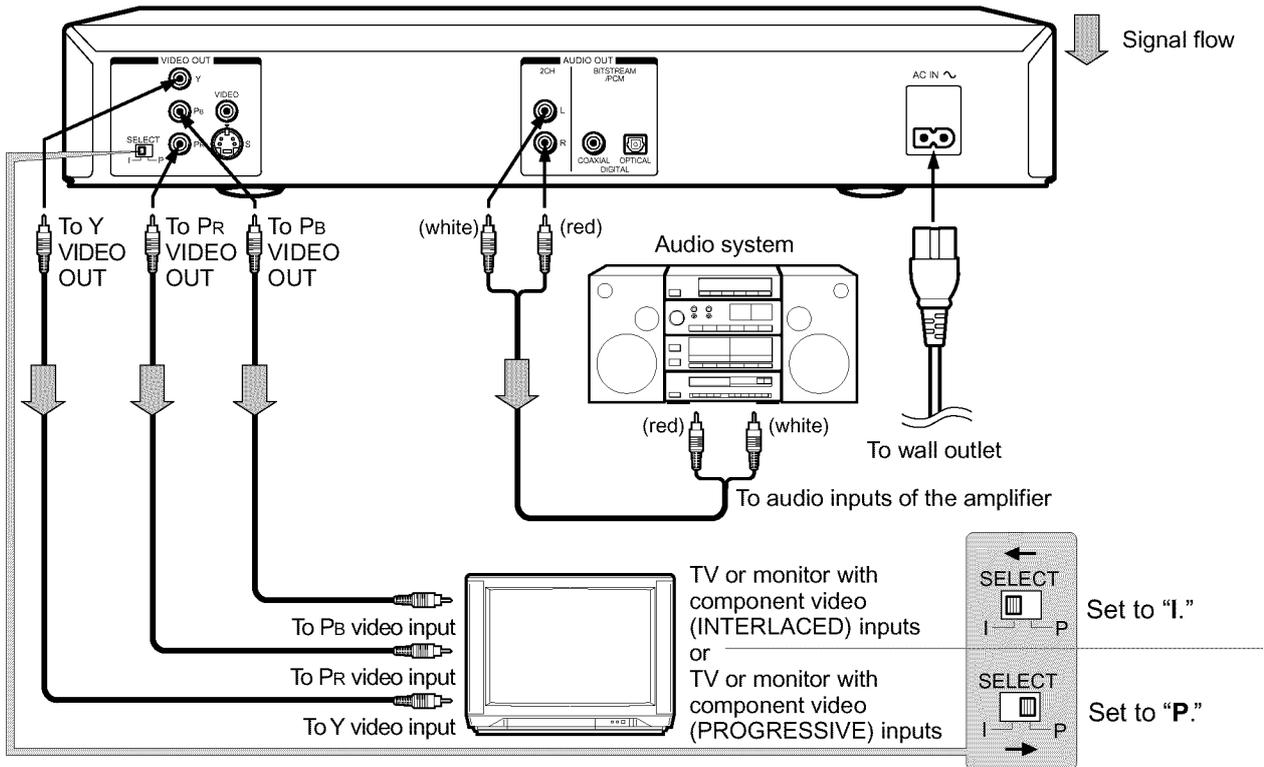Some TVs or monitors are equipped with component video inputs that are capable of reproducing a progressively scanned video signal. Connecting to these inputs allows you to view the highest quality pictures with less flicker.

Connecting to an audio system and TV equipped with component video inputs

Signal flow

To Y VIDEO OUT   To PR VIDEO OUT   To PB VIDEO OUT   (white) (red)   Audio system

(red) (white)   To wall outlet

To audio inputs of the amplifier

To PB video input
To PR video input
To Y video input

TV or monitor with component video (INTERLACED) inputs   Set to "I."

or

TV or monitor with component video (PROGRESSIVE) inputs   Set to "P."

■ **Switching the output signal (interlaced/ progressive) using the remote control (only when the SELECT (I/P) switch is set to "P")**

You can temporarily switch the output signal for better picture quality.
Press **COLORSTREAM SELECTOR** on the remote control.

• Make the following setting.

On-screen display	Select:	Page
"Audio Out Select"	"Bitstream" or "PCM"	56 59

Notes
• Refer to the owner's manual of the connected equipment as well.
• When you connect the DVD 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 player near a tuner or radio, the radio broadcast sound might be distorted. In this case, place the DVD player away from the tuner and radio.
• The output sound of the DVD 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 player's power cord. If you leave the amplifier power on, the speakers may be damaged.
• The S VIDEO OUT jack and the VIDEO OUT jack cannot output video signals, if you select progressive signal when the SELECT (I/P) switch is set to "P."

19

Connecting to Optional Equipment

You can enjoy high quality dynamic sounds by connecting the DVD 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 (DIGITAL) AUDIO OUT jack of the DVD 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 (DIGITAL) AUDIO OUT jack of the DVD player.
• Connect the BITSTREAM/PCM (DIGITAL) AUDIO OUT jack of the DVD player to the "DIGITAL (OPTICAL)" or "DIGITAL (COAXIAL)" input of a Receiver or Processor.
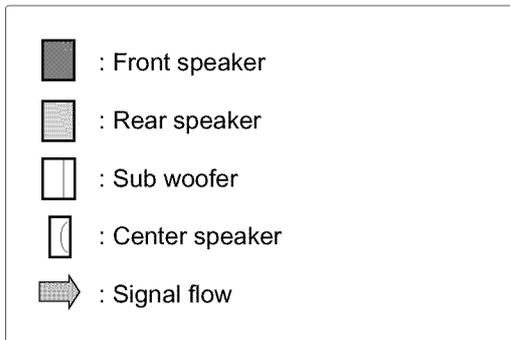• Refer to the owner's manual of the connected equipment as well.
• When you connect the DVD player to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections.
• The output sound of the DVD player has a wide dynamic range. Be sure 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 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 (DIGITAL) 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 56 59. Otherwise, high volume sound may damage your hearing as well as the speakers.
• When playing DTS-encoded discs (audio CDs), excessive noise may be output from the analog audio output jacks. To avoid possible damage to the audio system, you should take proper precautions when the analog audio output jacks of the DVD 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 (DIGITAL) AUDIO OUT jack of the DVD player.

20

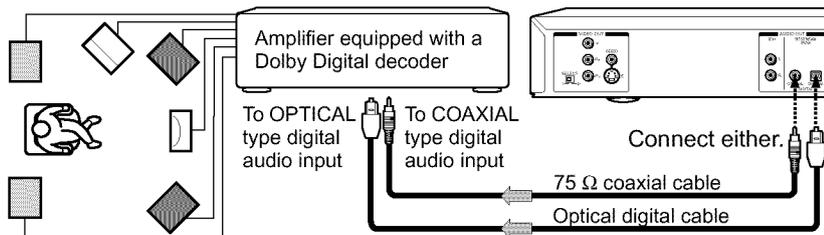## Connecting to an amplifier equipped with a Dolby Digital decoder

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 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.

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

On-screen display	Select:	Page
"Audio Out Select"	"Bitstream"	56 59
Recording system	DD D	42

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"	"Bitstream" or "PCM"	56 59

Be sure to set "Audio Out Select" to "Bitstream" or "PCM" 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 2CH AUDIO OUT

Audio cable

21
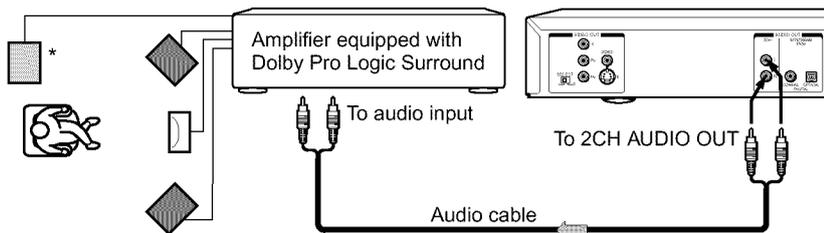
Connecting to Optional Equipment (Continued)

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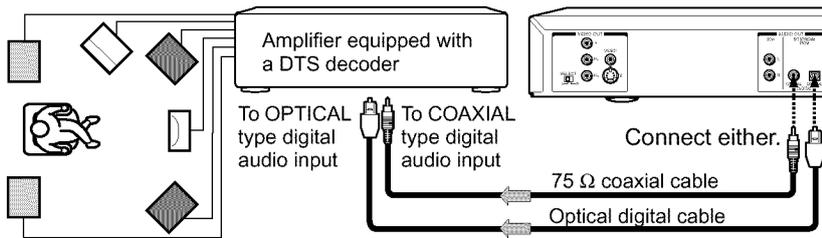
"DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc.

- 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"	56〉 59〉
Recording system	DTS	42〉

Amplifier equipped with a DTS 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 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.
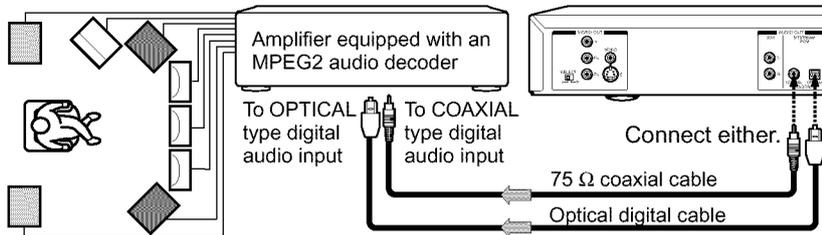
- Use DVD video discs encoded via the MPEG2 recording system.
- Make the following setting.

On-screen display	Select:	Page
"Audio Out Select"	"Bitstream"	56〉 59〉
Recording system	MPEG	42〉

Amplifier equipped with an MPEG2 audio decoder

To OPTICAL type digital audio input

To COAXIAL type digital audio input

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).

Amplifier equipped with a digital audio input

To OPTICAL type digital audio input

To COAXIAL type digital audio input

Connect either.

75 Ω coaxial cable

Optical digital cable

• Make the following setting.

On-screen display	Select:	Page
"Audio Out Select"	"PCM"	56⟩ 59⟩

23
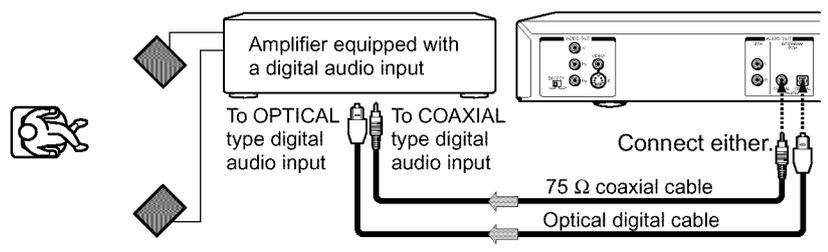
Basic playback

Begin your operation.

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

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.
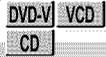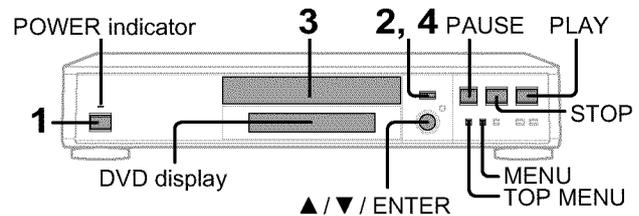
POWER indicator   **3**   **2, 4** PAUSE   PLAY

1

STOP

DVD display

▲ / ▼ / ENTER

MENU
TOP MENU

DVD-V VCD CD Basic playback

Preparations
• When you want to view a disc, turn on the TV and select the video input connected to the DVD 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 player.

1 Press the power button (POWER).

POWER

The DVD player turns on and the POWER indicator on the player illuminates.

When the DVD player is turned on for the first time, an on-screen display will appear to provide initial settings. Press the ▲ / ▼ buttons to select an item, and press the ENTER button. See the pages in ⬜⟩, and make a selection using the ▲ / ▼ buttons, then press the ENTER button.

On-Screen Language 60⟩
TV Shape 58⟩

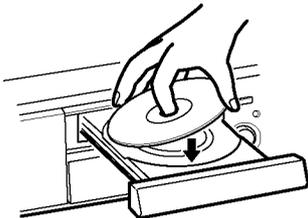**After making all the settings, select "Ⴂ" and press the ENTER button.**

2 Press OPEN/CLOSE.

▲OPEN/CLOSE

The disc tray opens.

3 Place a 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 player to malfunction.
• Do not place a disc which is unplayable in this DVD 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.)
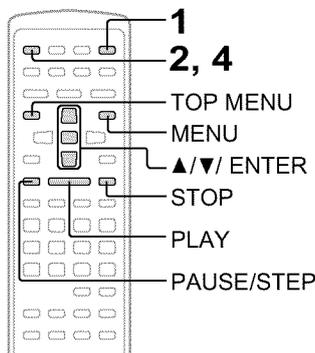
Note
If the disc tray contains a disc you have already played, playback will begin from the location where you last stopped playback. 29⟩

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

►PLAY

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

■ **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 player, you should generally reduce the sharpness adjustment on your TV when viewing DVD video discs.

■ **About DVD-V VCD CD**

The DVD-V VCD CD icons on the heading bar show the playable discs for the function described under that heading.

DVD-V : DVD video discs.　　　VCD : VIDEO CDs.

CD : Audio CDs.

■ **To pause playback (still mode)**

Press **PAUSE/STEP** during playback.

PAUSE/STEP
(II/▶)

To resume normal playback, press the PLAY button.

• Sound is muted during still mode.

■ **To stop playback**

Press **STOP**.

STOP
(■)

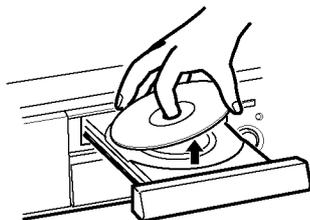■ **To remove the disc**

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 player automatically appears (when "Screen Saver" is set to "On" ⟨62⟩). To turn off the screen saver, press the PLAY button.

■ **Automatic Power Off function**

If the DVD player is stopped, or the screen saver is engaged for approximately 20 minutes, the DVD player will automatically turn itself off.

Notes
• Do not move the DVD 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 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 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.

Variable Speed Playback

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

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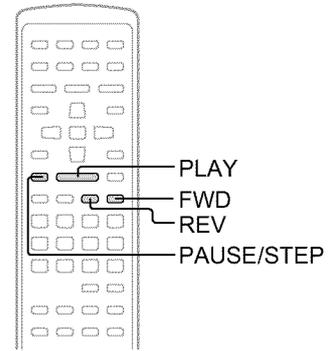
DVD-V VCD CD Playing in fast reverse or fast forward directions

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 player mutes sound and omits subtitles during reverse and forward scan of DVD video discs.
• The playback speed may differ depending on the disc.

DVD-V VCD CD Playing frame by frame

Press PAUSE/STEP during still playback.

PAUSE/STEP

(II/►)

Each time you press the PAUSE/ STEP button, the picture advances one frame.
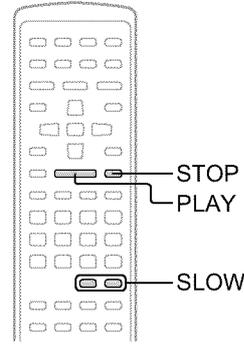
■ **To resume normal playback**
Press **PLAY**.

PLAY
(►)

Note
The sound is muted during frame by frame playback.

STOP
PLAY

SLOW

DVD-V VCD CD Playing in slow-motion

Press SLOW during playback.

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

SLOW | If you press the SLOW ◄I button during playback, you can view the picture in reverse slow-motion. (Only when using a DVD video disc.)

Each time you press the SLOW ◄I 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-V VCD CD Resuming playback from the same location

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

STOP | The DVD player memorizes the location where playback is stopped.

2 Press PLAY.

PLAY | The DVD 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 player effaces the memory of the location.

2 Press **PLAY**.

PLAY ► | DVD-V Playback starts from the beginning of the current title.
VCD Playback starts from the
CD 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
• Resuming cannot function when:
 – you change the parental lock setting [62] or select a disc menu language [60].
 – you play a PBC-featured VIDEO CD while "PBC" [64] 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 player keeps a location in the memory may function only after the memory is cleared.
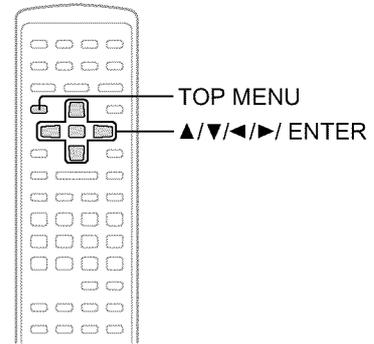
Locating a Desired Section

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.
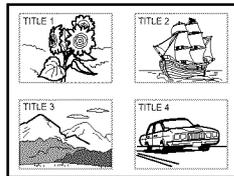
DVD video disc

| Title 1 | Title 2 |
| Chapter 1 | Chapter 2 | Chapter 1 | Chapter 2 | Chapter 3 |

VIDEO CD/Audio CD

Track 1   Track 2   Track 3   Track 4   Track 5
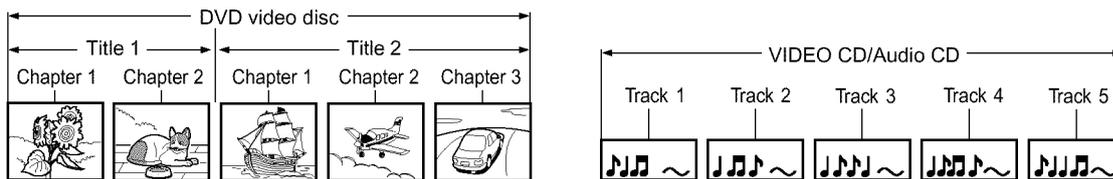
DVD-V VCD CD Locating a title using the top menu

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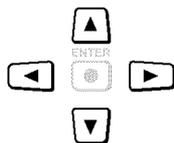
If the titles in the top menu are assigned a number, you can directly locate a specific title by pressing its designated number with the number buttons.

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 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.

CLEAR

▲/▼/◄/►/ ENTER

PLAY

T

Number buttons
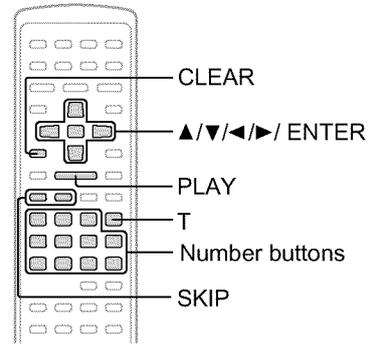
SKIP

DVD-V VCD CD Locating a desired section by entering the corresponding number
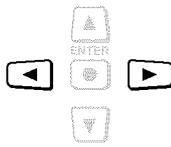
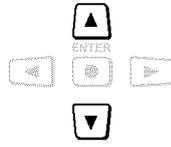### 1 Press T.

If you are using a VIDEO CD/audio CD, skip steps 1 and 2. Then at step 3, enter the number for the track you want using the number buttons.

SEARCH   e.g.

T   T C 1 ⊙ --:--:--

2 Press ◄ / ► to select a section you want to locate.

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

◄ ⊙ ►   T C 1 ⊙ --:--:--

3 Press ▲ / ▼ to enter a number of the section.

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-V 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   To locate succeeding chapters or tracks.
(I◄◄) (►►I)

SKIP   Playback starts from the beginning of the current chapter or track.
(I◄◄) (►►I)   When you press twice, playback starts from the beginning of the preceding chapter or track.

Notes
- Some titles may not display chapter numbers.
- When you set "Title Stop" to "Off" 64 , you can access chapters in another title. If you go back to the preceding title by pressing the SKIP I◄◄ button, the DVD player locates the first chapter of the title. When "Title Stop" is set to "On," you can access chapters only within the current title.
- If you press and hold the SKIP I◄◄ or ►►I button on the front panel during playback, the DVD player performs fast reverse or fast forward playback. You can vary the speed by pressing the button further.
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.

31

Advanced playback

Customizing the performance of your DVD player.

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

Accessing a Specific Location Directly

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

3
3
1
2
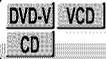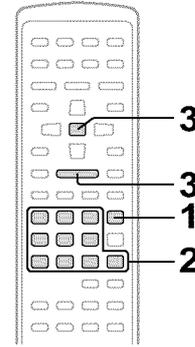
DVD-V VCD CD Entering the time counter of the desired location

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 C 1 ☉ -:--:--
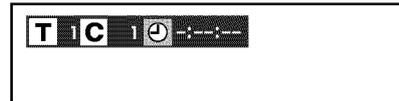
2 **Press the number buttons to enter the time.**

e.g.

(1) → (2) → (5) → (3) → (0)

T C 1 ☉ 1:25:30

3 **Press PLAY or ENTER.**

PLAY

(▶)

Playback starts from the desired location.

ENTER

(●)

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.

Playing Repeatedly

You can play a specific title, chapter, track, or segment repeatedly.

▲/▼
PLAY
CLEAR
REPEAT
A-B RPT

DVD-V VCD CD Repeating a title, chapter, or track

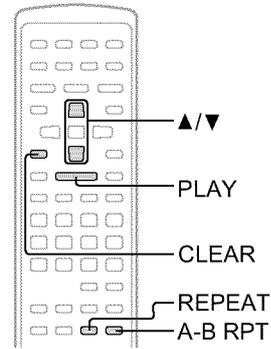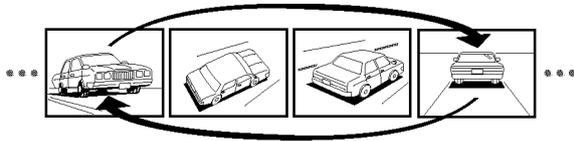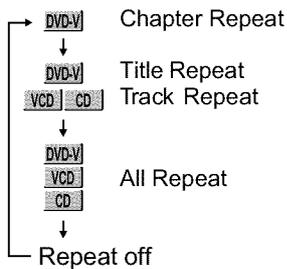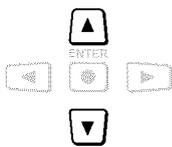**1** **Press REPEAT.**

REPEAT   The mode menu appears.

2 **Press REPEAT or ▲ / ▼ repeatedly to select the repeat playback mode.**

REPEAT   The mode changes as follows (when using the REPEAT button):

▲
ENTER
▼

→ DVD-V   Chapter Repeat
↓
DVD-V   Title Repeat
VCD CD   Track Repeat
↓
DVD-V
VCD   All Repeat
CD
↓
└ Repeat off

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

If you select the mode during playback, the DVD player automatically starts repeat playback after finishing the current title, chapter, or track.

3 **Press PLAY.**

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

A-B Repeat

■ **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 40 .
• You can specify a segment only within the current title.
• There may be a slight difference between point A and the location where playback actually resumes depending on the disc.

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)

▲/▼/◀/▶/ ENTER

3

2

CLEAR

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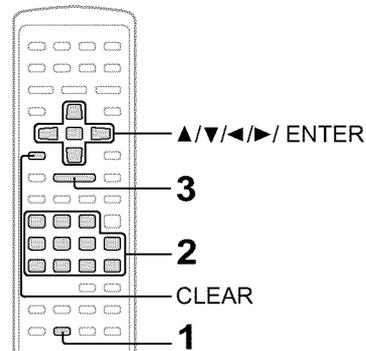
DVD-V VCD CD Setting titles, chapters, or tracks in a favorite order

1 Insert a disc and press MEMORY during stop.

MEMORY   The following display appears.

```
Memory List
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 ◀ / ▶ buttons, the spaces of "T" and "CT" are highlighted in turn. Highlight where you want to enter, then press the corresponding number buttons.

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.

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

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

PLAY   The DVD player starts memory
▶   playback.

■ To change the programmed selections

1 While the display appears on the TV screen, press the ▲ / ▼ / ◀ / ▶ buttons to highlight 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 the ▲ / ▼ buttons to highlight the item you want to cancel.
2 Press **CLEAR**.

■ To resume normal playback from memory playback

Press **CLEAR**.

CLEAR   The memory playback indicator
        disappears.

Notes
• Some discs may not permit memory playback operation.
• If you press the REPEAT button during memory playback, the DVD 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 player.
  – you open the disc tray.

Playing in Random Order

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

2
3
CLEAR
1, 2
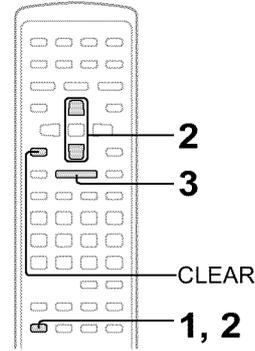
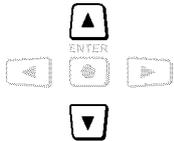**DVD-V VCD CD** Playing titles, chapters, or tracks in random order

1 Press RANDOM.

RANDOM   The mode menu appears.

2 Press RANDOM or ▲ / ▼ repeatedly to select the random playback mode.

RANDOM

▲
ENTER
◄ ● ►
▼

The mode changes as follows (when using the RANDOM button):

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

↓

DVD-V Title Random   Plays titles in random order.

VCD Track Random   Plays tracks in random order.

CD Track Random   Plays tracks in random order.

↓

Random Off   Resumes normal playback.

If you select the mode during playback, the DVD player automatically starts random playback after finishing the current title, chapter, or track.

3 Press PLAY.

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

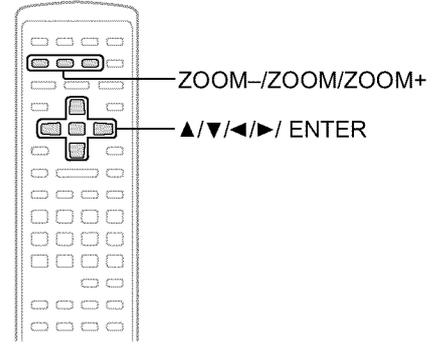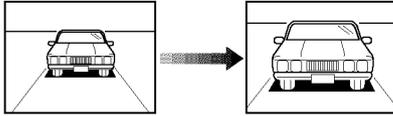### ■ To resume normal playback

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

Zooming a Picture

You can magnify areas within a picture.
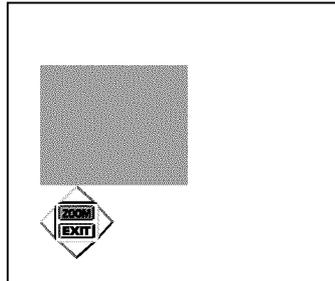
ZOOM−/ZOOM/ZOOM+

▲/▼/◄/►/ ENTER

DVD-V VCD CD Zooming a picture

1 During normal, slow or still playback, press ZOOM, ZOOM+ or ZOOM−.

ZOOM

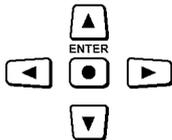The DVD player enters the zoom playback mode, and a monitor scope and an icon appear.

e.g.

2 Select the zoom point and magnification level.

Magnification level

• To use the fixed levels:
  You can select from the followings.
  – Magnification
  – Image reduction
  – Normal playback

ZOOM

Press the **ZOOM** button repeatedly.

▲/▼/◄/► ENTER

Alternatively press the ▲/▼/◄/► buttons to select "ZOOM" on the icon, and press the **ENTER** button repeatedly.

• To zoom in (or to zoom out):

+ −

Press repeatedly or press and hold the **ZOOM+** (or **ZOOM−**) button.

Zoom point

To shift:

▲/▼/◄/►
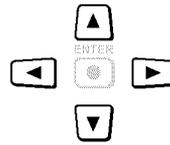
Press the ▲/▼/◄/► buttons.

■ **To hide the monitor scope and the icon during zoom playback**

Press ▲/▼/◄/► to select "EXIT," and press **ENTER**.
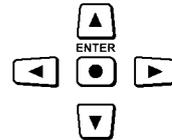
▲/ENTER/◄/●/►/▼

■ **To resume normal playback**

Press **ZOOM** repeatedly until the monitor scope and the icon disappear.

Alternatively press ▲/▼/◄/► to select "ZOOM" on the icon, and press **ENTER** repeatedly until the monitor scope and the icon disappear.

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 ▲/▼/◄/►/ENTER buttons cannot work on menus included on DVD video discs. If you want to view the menus, cancel the zoom playback.
• The magnification level varies depending on the picture size you select. [58]

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

You can easily switch a preferred audio enhancement.

*E.A.M.: Enhanced Audio Mode

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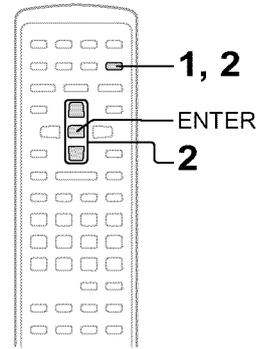
DVD-V VCD CD Selecting the sound enhancement

1 Press E.A.M.

E.A.M

The sound enhancement menu appears.

2 Press E.A.M or ▲ / ▼ repeatedly to select the sound enhancement.

E.A.M

▲
ENTER
◄ ● ►
▼

Normal:

Normal sound.

3D (N-2-2):

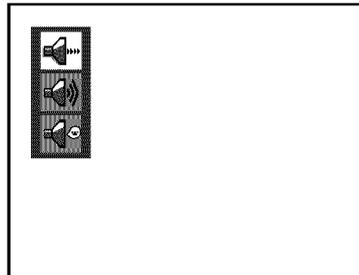To obtain expansive virtual surround sound effects from just two speakers.

Dialogue:

To control critical center channel information to make dialogue more intelligible (only when playing a DVD video disc recorded on the Dolby Digital recording system).
• To use this enhancement on sounds output from the BITSTREAM/PCM (DIGITAL) AUDIO OUT jack, be sure to set "Audio Out Select" to "PCM". 59⟩

■ **To exit the audio enhancement selection**

Press **ENTER**.

ENTER
●

Alternatively leave the DVD player unattended for about 5 seconds after having made a selection.

Notes
• Actual effects to sounds may vary depending on the speaker systems. Make selection according to your preference.
• Actual effects to sounds may vary depending on the disc.
• When the DVD 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 59⟩.

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.

Advanced playback

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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

CLEAR

1, 2
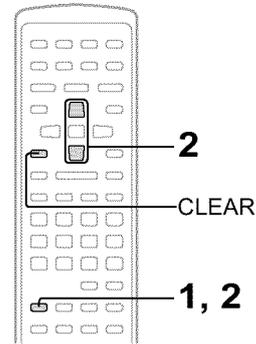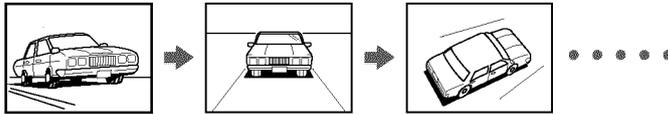
DVD-V VCD
CD
Changing the camera angle

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.

e.g.

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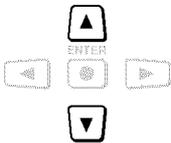
You can change the camera angle directly by pressing the number buttons corresponding to its angle number instead of using the ▲ / ▼ buttons.

■ **To turn off the angle number display**
Press **CLEAR**.

CLEAR

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.

Selecting Subtitles

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

A/▼/◄/►/ ENTER

SUBTITLE

DVD-V VCD CD Selecting a subtitle language

1 Press SUBTITLE during playback.

SUBTITLE The current subtitle setting is displayed.
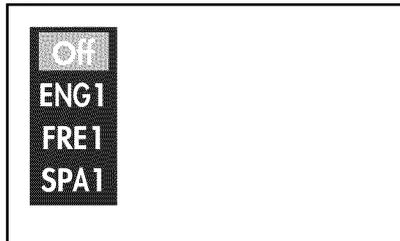
e.g.

The abbreviation of the language appears instead of the language name. Refer to the list of languages and their abbreviations. 65
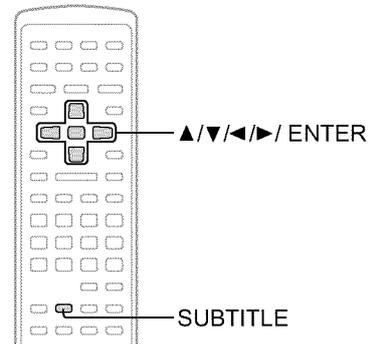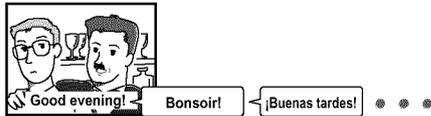
2 Press SUBTITLE or A / ▼ while the subtitle setting is displayed on the TV screen.

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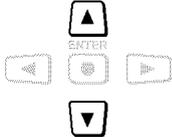
To turn off the subtitle setting display, press the ENTER button.

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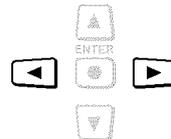
Notes
- Some DVD video discs are set to display subtitles automatically, and you cannot turn them off even if you set the subtitle function to off.
- During some scenes, the subtitles may not appear immediately after you select "On."
- Some DVD video discs will allow you to make subtitle selections and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

Advanced playback

Notes
- When you turn on the DVD player or replace a disc, the player returns to the initial default setting 61.
  When you select a subtitle language which is not included on the disc, the DVD player plays a prior language programmed on the disc.
- During some scenes, the subtitles may not appear immediately after you change the subtitle language.

Selecting a Language

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

Good morning! *Bonjour!* *¡Buenos días!* • • •

— 2

— CLEAR

— 1, 2
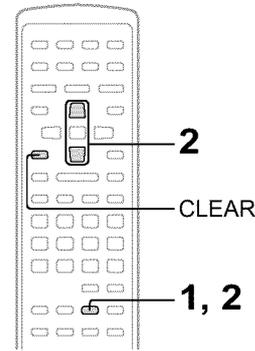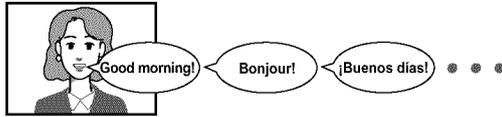
DVD-V VCD CD Selecting a playback audio setting

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. 65〉

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

AUDIO Each time you press the AUDIO button or the ▲ / ▼ buttons, the audio settings included on the disc change.
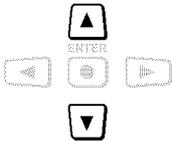
If you press the ◄ / ► buttons, you can select output sound format. 59〉

To turn off the audio setting display, press the CLEAR 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 player or replace a disc, player returns to the initial default setting 61〉.
  If you select a sound track which is not included on the disc, the DVD 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.

42

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

Discs	Sound recording system			Audio selection from the menu [56][59] and output jacks on the rear panel			
				"Bitstream"		"PCM"	
				BITSTREAM/PCM jack	2CH AUDIO OUT jacks	BITSTREAM/PCM jack	2CH AUDIO OUT jacks
DVD video discs	Dolby Digital			Bitstream	48 kHz/20 bit	48 kHz/20 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/20 bit		48 kHz/20 bit	48 kHz/20 bit	48 kHz/20 bit	48 kHz/20 bit
		48 kHz/24 bit		48 kHz/24 bit	48 kHz/24 bit	48 kHz/24 bit	48 kHz/24 bit
		96 kHz/16 bit		96 kHz/16 bit	96 kHz/16 bit	96 kHz/16 bit	96 kHz/16 bit
		96 kHz/20 bit		96 kHz/20 bit	96 kHz/20 bit	96 kHz/20 bit	96 kHz/20 bit
		96 kHz/24 bit		96 kHz/24 bit	96 kHz/24 bit	96 kHz/24 bit	96 kHz/24 bit
	DTS			Bitstream	–	–	–
	MPEG1, MPEG2			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
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
	DTS			Bitstream	(Noise)	Bitstream	(Noise)

▨▨▨▨▨▨ : 3D (N-2-2) sound enhancement can function.
(Signals are depressed by down sampling process.)

- Signals of 96kHz from the BITSTREAM/PCM jack are depressed to 48 kHz by down sampling process when:
  – "3D (N-2-2)" is selected. [39]
  – "PCM Down Sampling" is set to "On." [59]
  – a copyright protected disc is played.
- Quantization bit of signals of 20 bit or higher is 16 bit if they are in a copyright protected disc.

Advanced playback

Quick control

Simple use of a single button and the cursor control enables you to direct your playback, without manipulating many actual buttons.

● **Using the Graphic Remote Control - V-REMOTE -**

● **Selecting the Playback Function - QUICK -**

● **Accessing Features - NAVI -**

Using the Graphic Remote Control - V-REMOTE -

Pressing one button can display a graphics based on-screen remote control that allows you to control playback as if you were doing it from the actual remote control.
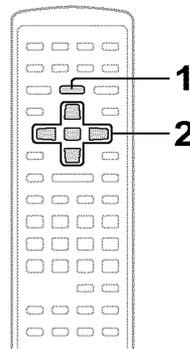
DVD-V VCD CD Using the graphic remote control

1 During playback, press V-REMOTE.

V-REMOTE The graphic remote control (Virtual Remote) appears.
For the meaning of each icon, see right.

e.g. DVD-V
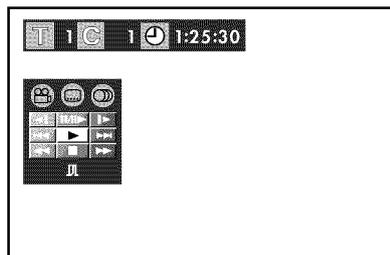
2 Press ▲ / ▼ / ◄ / ► to select the icon, and press ENTER.
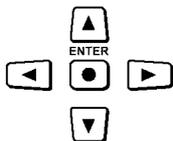
■ **To turn off the Virtual Remote**
Press **V-REMOTE**.

V-REMOTE
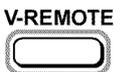
Note
Some discs may not permit this operation.

■ **Icons and features**
See the pages in ▭ for details on the features.

Icon	Function	Page
T *	Current title/track number	–
C *	Current chapter number	–
⊕ *	Elapsed time of the current title/track	–
☉ **	Audio setting	42〉
⊡ **	Subtitle setting	41〉
⚟ **	Angle setting	40〉
◄I	Reverse slow motion playback	29〉
II/II►	Pause / Frame by frame playback	28〉
I►	To begin slow motion playback	29〉
I◄◄	Playback starts from the beginning of the current chapter or track.	31〉
►	Normal playback	26〉
►►I	To locate succeeding chapters or tracks.	31〉
◄◄	Fast reverse playback	28〉
■	To stop playback.	27〉
►►	Fast forward playback	28〉
Ⴈ	To turn off the Virtual Remote.	

* You can access a desired location. After step 2, perform the steps below:
  T / C : steps 3 to 5 on 31〉
  ⊕ : steps 2 and 3 on 34〉

** After step 2, a sub menu will appear. Perform step 2 on the page in ▭〉.

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Selecting the Playback Function - QUICK -

Pressing one button can display a list of playback functions which are relevant to your current playback mode. You can check and modify them from the list.

1

2 - 5

DVD-V VCD CD Selecting the playback function

1 During playback, press QUICK.

QUICK

The following on-screen display appears.
(The actual display will vary depending on the playback status.)

e.g. DVD-V

> Quick
> Memory
> Repeat
> A-B (Set A)
> Random
> Bit Rate
> Text
> Exit

2 Press ▲ / ▼ to select a desired item.

e.g. To change the repeat mode:

> Quick
> Memory
> Repeat
> A-B (Set A)
> Random
> Bit Rate
> Text
> Exit
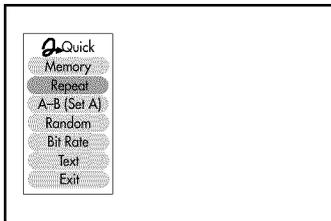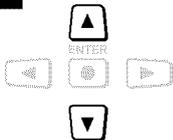
3 Press ENTER.

e.g. The mode menu appears.

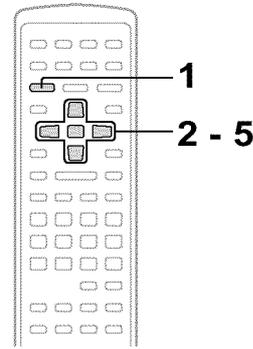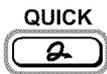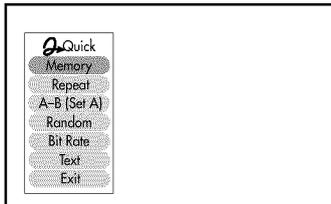> Chapter Repeat
> Title Repeat
> All Repeat
> Repeat Off
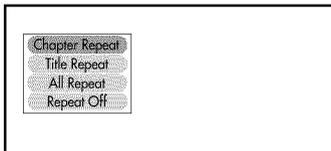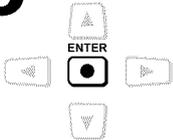
4 Press ▲ / ▼ to change the setting.

e.g. To select the title repeat mode:

> Chapter Repeat
> Title Repeat
> All Repeat
> Repeat Off
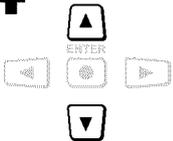
5 Press ENTER.

ENTER

The on-screen display disappears and playback will resume according to your selection.

■ Quick menu

Memory :   To program memory playback. [36]
Repeat :   To select the repeat playback mode.
             For the mode selections, see page [35].
A-B (Set A) : At the beginning of a segment you want
             to repeat, press the ENTER button. Then
             at the end of the segment, press the
             ENTER button again. The segment is
             played repeatedly. [35]
Random :   To select the random playback mode.
             For the mode selections, see page [37].
Bit Rate :   To activate the bitrate display.
             (Bit rate: data transfer rate (Mbit/s)
             Amount of picture, sound and subtitle
             data in the DVD video disc transferred
             per second.
             The larger the value, the more data
             processed, but this does not necessarily
             insure better picture quality.)
Text :   To activate the Text display.
             Text display:
             Displays DVD-Text data or CD-Text data
             if included on the disc.
             (Some content on the disc may not be
             displayed properly depending on the
             disc.)
Exit :   To quit the on-screen display.

Note
Pressing the QUICK button again also exits the on-screen display.

Quick control

47

Accessing Features - NAVI -

The NAVI menu provides an icon based display from which you can easily access key playback function or setting.
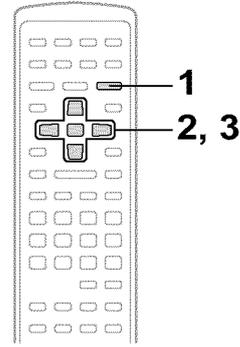
DVD-V VCD CD NAVI menu items

1 Press NAVI.

NAVI The NAVI menu appears.

e.g. DVD-V

navi menu

STROBE VIEWER
SETUP
PREVIEW
CAPTURE
ANGLE VIEWER

PICTURE SETTING
E.A.M.
V-REMOTE
DISPLAY
CLOSED CAPTION

Exit
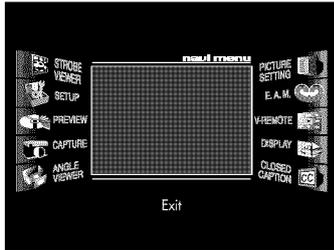
2 Press ▲ / ▼ / ◀ / ▶ to select a desired feature icon.

For details on each feature, refer to the list on the next page.

3 Press ENTER.

ENTER Selection details appears.

4 Refer to the list on the next page and follow the instructions detailed on subsequent pages.

■ **To exit the NAVI menu**

Press **NAVI**.

NAVI

Alternatively press ◀ / ▶ to remove the highlight from an icon to the center position, and press **ENTER**.

ENTER
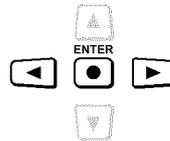
Note

Depending on the disc, some features cannot be accessed.

Navi menu selections

	Strobe Viewer	You can divide a desired scene into stop action frames for careful analysis.	50⟩
	Setup	You can change the default settings to customize performance to your preference.	56⟩
	Preview	You can display thumbnail views of the first scenes of titles or chapters and select a preferred one.	50⟩
	Capture	You can sample a scene from a playback picture and transform it into a background picture.	51⟩
	Angle Viewer	You can display all camera angles simultaneously and select your preferred one from them.	51⟩
	Picture Setting	You can fine adjust picture quality and store up to 3 custom picture settings in the memory of the DVD player.	52⟩
	E.A.M.	You can easily switch a preferred audio enhancement.	39⟩
	V-Remote	You can control key playback functions using the graphics based on-screen remote control.	46⟩
	Display	You can view information about a disc and its operational status on the TV screen.	53⟩
	Closed Caption	You can display closed caption included on a DVD disc without connecting a closed caption decoder to your TV.	53⟩

Quick control

Accessing Features - NAVI - (continued)

NAVI menu items

Strobe Viewer

You can divide a desired scene into stop action frames for careful analysis.

After selecting this icon and pressing ENTER, the following on-screen display appears:

e.g.

Slow	Normal	Fast
Strobe Viewer	>>	冗
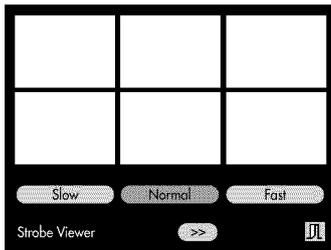
1 Press ▲ / ▼ / ◄ / ► to select.
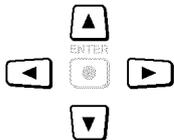
Slow: Still pictures at shorter intervals.
Normal: Still pictures at normal intervals.
Fast: Still pictures at longer intervals.
>>: To view the next series of 6 pictures.
冗 : To quit the on-screen display.

2 Press **ENTER**.

ENTER

Note
Some discs or scenes may not permit this operation.

Preview

You can display thumbnail views of the first scenes of titles or chapters and select a preferred one.

After selecting this icon and pressing ENTER, the following on-screen display appears:

e.g.

1	2	3
4	5	6
Title	Chapter	Interval
Preview	<< >>	冗
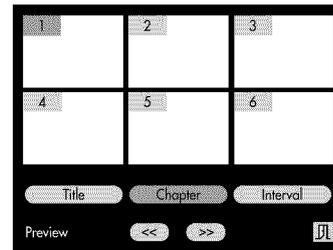
1 Press ▲ / ▼ / ◄ / ► to select.
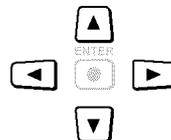
1 - 6: To locate the scene.
Title: To display the first scenes of titles (1 to 6).
Chapter: To display the first scenes of chapters (1 to 6).
Interval: To display scenes at intervals of about 10 minutes apart.
<< : To go to the previous page.
>> : To go to the next page.
冗 : To quit the on-screen display.

2 Press **ENTER**.

ENTER

Notes
• Some discs or scenes may not permit this operation.
• Some items may not be selected depending on the disc or scene.
• Some of the first scenes may not picked up depending on the disc.

Capture

You can sample a scene from a playback picture and transform it into a background picture.

After selecting this icon and pressing ENTER, the following on-screen display appears:

e.g.

```
Capture
Storing
Exit
```
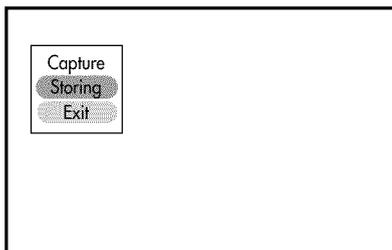
1 Pause playback at a scene you want to capture.

2 Press ▲ / ▼ to select.
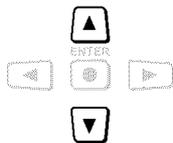
Storing: To sample and store the current picture in the player memory.
Exit: To quit the on-screen display.

3 Press **ENTER**.

ENTER

The stored picture will be displayed as a background picture when the player is in the stop mode. It is necessary to confirm this process via the setup menu 〈62〉.

Notes
• You can store only one picture. Storing a new picture will erase the old one.
• No operations are permitted in process of sampling and storage of background picture.

Angle Viewer

You can display all camera angles simultaneously and select your preferred one from them.

After selecting this icon and pressing ENTER, the following on-screen display appears:

e.g.

1	2	3
4	5	6
7	8	9

Angle Viewer
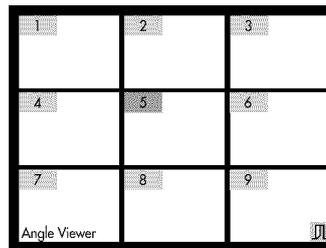
When the scene contains 9 camera angles:

1 Press ▲ / ▼ / ◄ / ► to select.
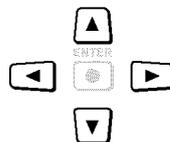
1-9 : To select the camera angle.
⊓ : To quit the on-screen display.

2 Press **ENTER**.

ENTER

Note
Some discs or scenes may not permit this operation.

Quick control

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Accessing Features - NAVI - (continued)

NAVI menu items

Picture Setting

You can fine adjust picture quality and store up to 3 custom picture settings in the memory of the DVD player.

After selecting this icon and pressing ENTER, the following on-screen display appears:

e.g.

1 Press ▲ / ▼ to select, and press **ENTER**.
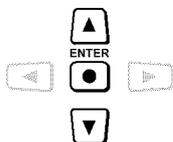
(Standard) : Normal setting.
1, 2, 3:   Select the desired custom memory number. (Follow steps 2 to 4 below.)

2 Press ▲ / ▼ to select the element.

e.g. When you select "Color":

Picture Setting
Contrast   +1
Brightness   -1
Color   0
Tint   0
DNR   Off
Edge Enhance   Off
All Reset
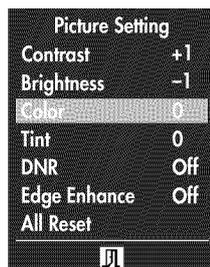
3 Press **ENTER**.
The sub menu appears.

4 Press ◄ / ► to adjust the value, and press **ENTER**.

e.g.   Color   ◄ +2 ►

Contrast :   -7 (Lower)   to +7 (Higher)
Brightness :   -7 (Darker)   to +7 (Brighter)
Color: -7 (Duller)   to +7 (Brighter)
Tint :   -7 (Redder)   to +7 (Greener)
DNR*1 :   On / Off
Edge Enhance*2 : On / Off
All Reset :   To restore all the elements to the normal setting. A message will appear. Follow the procedure displayed on-screen.

*1: DNR: Digital Noise Reduction.
To view a picture with less video noise.

Notes
• Actual picture enhancement may vary depending on the quality of the disc.
• While the DNR feature can provide additional improvement in the reduction of noise in the video signal, it may produce undesirable picture artifacts on some discs.
• Depending on the disc, some kinds of picture details may be lost by the picture enhancement.

*2: To enhance picture edges.

Note
The Tint adjustment is not available when connecting to a TV via the component video jacks (Y, P_B, P_R).

Display

You can view information about a disc and its operational status on the TV screen.

After selecting this icon and pressing ENTER, the following on-screen display appears:

e.g.

Title : 1
Chapter : 23
Time : 1:23:45
Audio : ENG 1 ☐☐ D 2CH
Subtitle : ENG 1 On
Angle : 1/3
E.A.M. : Normal
Audio Out Select : Bitstream
Zoom : Off
Chapter repeat

To quit the on-screen display, press **ENTER**.

Note
Some discs or scenes may not permit this operation.

Closed Caption

You can display closed caption included on a DVD disc without connecting a closed caption decoder to your TV.

After selecting this icon and pressing ENTER, the following on-screen display appears:

e.g.

On
Off

1 Press ▲ / ▼ to select.
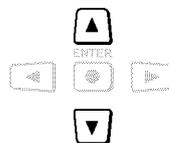
On : To display closed caption.
Off: To disable closed caption.

2 Press **ENTER**.

ENTER

Notes
• While you are using on-screen displays (including the above one), you cannot view closed caption.
• When "On" is selected, some displays such as "▷" may be disabled.

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.

1, 6

2, 3, 4

RETURN
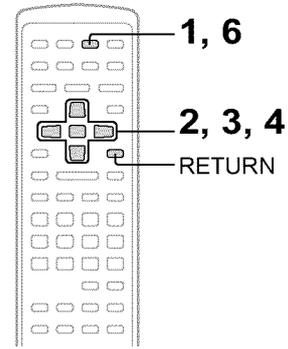
DVD-V VCD CD Setting procedure

---

1 Press SETUP during stop.

SETUP   The following on-screen display appears.

Picture
TV Shape	4:3 LB
Progressive 4:3 Output	Full
Progressive Conversion	Auto
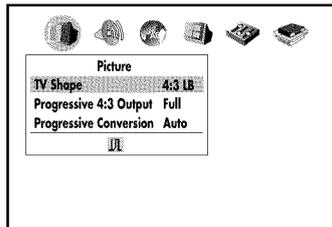
2 Press ◄ / ► to select a symbol for the setting you want to change.

(See the next page.)

◄ ⊙ ►
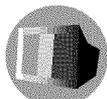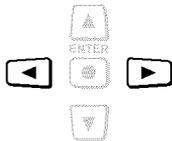
Picture performance settings

Output sound settings

Language settings

Display settings
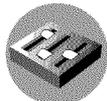
Operational settings

Initializing

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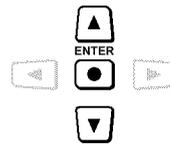
▲ ENTER
◄ ● ►
▼

4 Change the selection by ▲ / ▼ or other buttons, by referring to the corresponding pages 58, then press ENTER.

▲ ENTER
◄ ● ►
▼
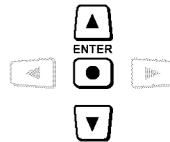
5 Repeat steps 3 and 4 to change other settings.

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 also when you select "⬛" and press the ENTER 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.

Setting		Details	Page
TV Shape	DVD-V	To select a picture size according to the aspect ratio of your TV.	58
Progressive 4:3 Output	DVD-V VCD	To select the video output of pictures recorded in 4:3 format. (Only when connected to a PROGRESSIVE TV.)	58
Progressive Conversion	DVD-V	To select the system of output signal. (Only when connected to a PROGRESSIVE TV.)	58

PCM Down Sampling	DVD-V	To select a sound processing option according to performance of the connected equipment. (Only when the BITSTREAM/PCM (DIGITAL) AUDIO OUT jack is connected.)	59
Audio Out Select	DVD-V VCD CD	To select an output sound format corresponding to your system connection.	59
Dynamic Range Control	DVD-V	To turn on or off a function that makes faint sounds easier to hear even if you lower the volume during late hours playback.	59
Karaoke Vocal	DVD-V	To turn on or off the vocal output during DVD KARAOKE disc playback.	60

On-Screen Language	DVD-V VCD CD	To select a preferred language for on-screen displays.	60
Disc Menu Language	DVD-V	To select a preferred language for disc menus.	60
Audio Language	DVD-V	To select a preferred language for the sound track.	61
Subtitle Language	DVD-V	To select a preferred language for subtitles.	61
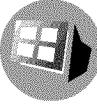
On-Screen Displays	DVD-V VCD CD	To turn on or de-activate the operational status display on the TV screen.	62
Background	DVD-V VCD CD	To select the background color or background picture.	62
Screen Saver	DVD-V	To turn the screen saver on or off.	62

Pause/Still	DVD-V	To select the resolution of still pictures. (Field/Frame)	62
Parental Lock	DVD-V	To turn the parental lock function on or off.	62
Remote Confirmation	DVD-V VCD CD	To turn on or off the confirmation beeper announcing when each remote command received.	64
Title Stop	DVD-V	To turn on or off a feature that automatically stops playback after a title has been viewed.	64
PBC	VCD	To use the menu screen when playing a PBC-controllable VIDEO CD.	64

Initialize	DVD-V VCD CD	To restore all settings to the factory set.	64

Function setup

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Customizing the Function Settings (continued)

Setting details

	Picture	
	TV Shape	4:3 LB
	Progressive 4:3 Output	Full
	Progressive Conversion	Auto
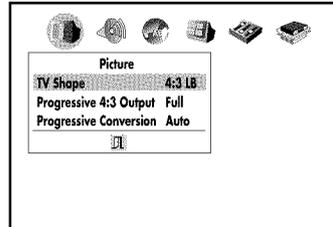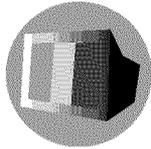
TV Shape DVD-V

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.

Progressive 4:3 Output DVD-V VCD

Select the video output of pictures recorded in 4:3 format. (Only when connected to a PROGRESSIVE TV.)

Full: Displays pictures expanded horizontally to fill the 16:9 screen.

4:3: Displays images in 4:3 aspect ratio with masking bars to the left and right of the picture.

Progressive Conversion DVD-V

There are two types of source content in pictures recorded in DVD video discs: film content (pictures recorded from films at 24 frames per second) and video content (video signals recorded at 30 frames per second). Make this selection according to the type of content being viewed.

Auto: Select this position normally.
The DVD player automatically detects source content, film or video, of playback source, and converts that signal in the progressive output format in an appropriate method.
Video: The DVD player filters video signal, and converts it in the progressive output format appropriately.
Suitable for playback of video content pictures.
Film: The DVD player converts film content pictures in the progressive output format appropriately.
Suitable for playback of film content pictures.
The progressive output feature will be most effective under this selection.

Note
Depending on the disc, pictures may be cut off or doubled. In this case, select "Video."

Audio
PCM Down Sampling   Off
Audio Out Select   Bitstream
Dynamic Range Control On
Karaoke Vocal   Off
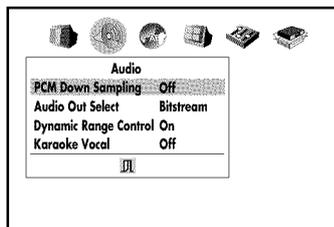
PCM Down Sampling DVD-V

Make this selection only when you use your audio
equipment (e.g. receiver) connecting to the DVD
player via the BITSTREAM/PCM (DIGITAL) AUDIO
OUT jack.

According to performance of your connected receiver,
select a sound processing option for playback of a
disc that contains high frequency signals (sampling
frequency 96 kHz).

Off: Select when your connected receiver conforms
     to high frequency signals of 96 kHz.
     The DVD player outputs these signals in a disc
     as they are.
On: Select when your connected receiver does not
     conform to high frequency signals of 96 kHz.
     The DVD player outputs these signals in a disc
     depressing the frequencies to 48 kHz.

Notes
• Regardless of this setting, the DVD player outputs high
  frequency signals in a copyright protected disc,
  depressing to 48 kHz.
• If you select "Off" while your connected receiver does
  not conform to high frequency signals of 96 kHz, you
  cannot hear output sound of those signals.

Audio Out Select DVD-V 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 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.

PCM: Select when connected to a 2 channel
            digital stereo amplifier. 23
            The DVD player outputs sounds in the
            PCM 2ch format when you play a DVD
            video disc recorded on the Dolby
            Digital, MPEG1 or MPEG2 recording
            system.

Note
When you make a connection to a TV, or Dolby Pro
Logic or stereo system via the analog audio jacks, select
"Bitstream" or "PCM."

Dynamic Range Control DVD-V

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 disc.

Function setup

Customizing the Function Settings (continued)

Setting details

Karaoke Vocal DVD-V

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 player.

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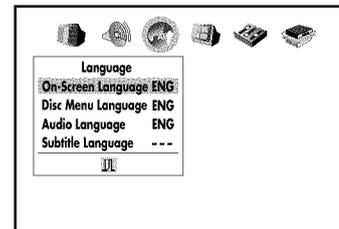
On-Screen Language DVD-V VCD CD

English: To view on-screen displays in English.
Français: To view on-screen displays in French.
Español: To view on-screen displays in Spanish.

Disc Menu Language DVD-V

English: To display disc menus in English.
French: To display disc menus in French.
Spanish: To display disc menus in Spanish.
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 65.
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   English
Disc Menu Language ENG   French
Audio Language   ENG   Spanish
Subtitle Language ---   Others
                          Code E S
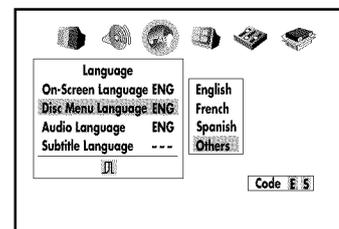
4) Press the ENTER button.

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

Audio Language `DVD-V`

English: To play sound tracks in English.
French: To play sound tracks in French.
Spanish: To play sound tracks in Spanish.
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 `65`.
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	English
Disc Menu Language ENG	French
Audio Language ENG	Spanish
Subtitle Language ---	Others
爪	Code E S

4) Press the ENTER button.

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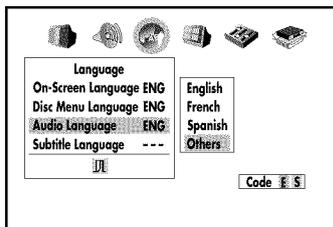Some DVD video discs may be played in a different language than you selected. A prior language may be programmed on the disc.

Subtitle Language `DVD-V`

English: To display subtitles in English.
French: To display subtitles in French.
Spanish: To display subtitles in Spanish.
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 `65`.
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	English
Disc Menu Language ENG	French
Audio Language ENG	Spanish
Subtitle Language ---	No Subtitle
爪	Others
	Code A A
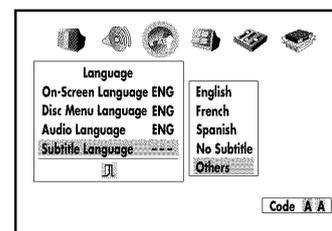
4) Press the ENTER button.
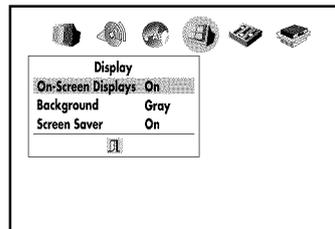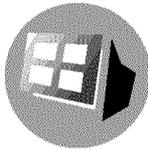
Notes
• Some DVD video discs may be set to display subtitles in a different language than you selected. A prior subtitle language may be programmed on the disc.
• Some DVD video discs allow you to change subtitle selections only via the disc menu. If this is the case, press the MENU button and choose the appropriate subtitle language from the selection on the disc menu.

Function setup

Customizing the Function Settings (continued)

Setting details

```
          Display
On-Screen Displays  On
Background          Gray
Screen Saver        On
```

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

On-Screen Displays DVD-V VCD CD

Off: Operational modes (e.g. " ▯▯ ", " ▷▷ ") are not displayed.

On: Operational modes (e.g. " ▯▯ ", " ▷▷ ") are displayed on-screen.

Background DVD-V VCD CD
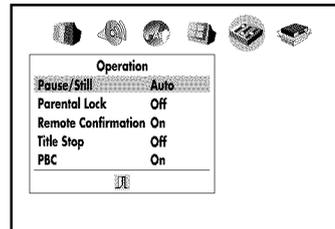
Blue: Blue background.
Gray: Gray background.
Capture: To use a picture you sampled and stored in the memory using the Capture feature 51〉 as a background.
Jacket: To use the jacket picture included on some discs as a background. If it is not included, a gray background will be substituted.

Screen Saver DVD-V

Off: The screen saver is disengaged.
On: The screen saver operates.
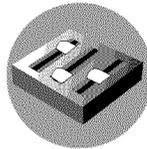
Pause/Still DVD-V

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-V

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 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.

```
Parental Lock
Security Code  ----
```
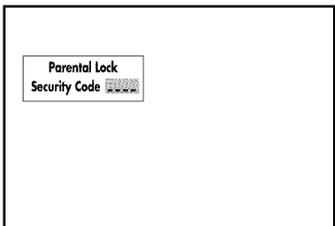
1) Press the number buttons to create a personal 4-digit security code, then press the ENTER button.
   If you make a mistake before pressing the ENTER button, press the CLEAR button and enter your 4-digit security code again.

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.

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

```
Parental Lock
Area Code   U S
Level       7
```
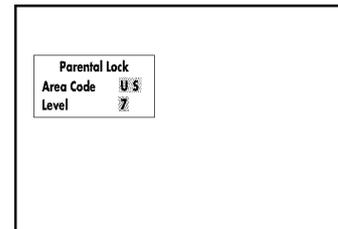
You cannot play DVD video discs rated higher than the level you selected unless you cancel the parental lock function.
For example, when you select level 7, discs rated higher than level 7 are locked out and cannot be played.

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
(■) → (■) → (■) → (■) → (●)

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.

Note
After making the "Parental Lock" setting, the on-screen display will disappear. To make other settings, press the SETUP button again to display them.

Function setup

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Customizing the Function Settings (continued)

Setting details

Remote Confirmation DVD-V VCD CD

Off: The beeper does not sound.
On: The beeper sounds with each remote operation.

Title Stop DVD-V

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

Initialize
All settings will be restored to pre-set levels.   Exit Yes
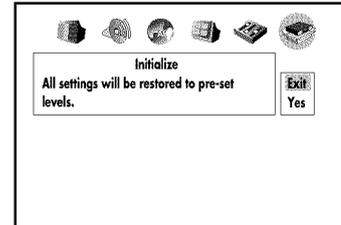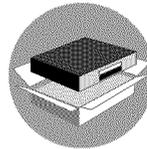
Initialize DVD-V VCD CD

To restore all settings to the factory set.
1) Press the ▲ / ▼ buttons to select "Yes," and press the **ENTER** button.

▲
ENTER
◁ ● ▷
▼
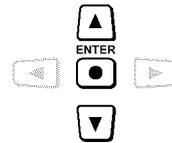
2) Read the message, and if you really want to restore all settings, press the ▲ / ▼ buttons to select "Yes," and press the **ENTER** button.

▲
ENTER
◁ ● ▷
▼
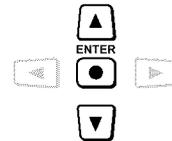
The message of completion appears.

Note
The "Parental Lock" setting is not restored to the factory set.

Table of Languages

Table of languages and their abbreviations

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

Others

● Before Calling Service
  Personnel

● Specifications

● LIMITED WARRANTY DVD
  PLAYER

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 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 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 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.	42, 56 59
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 player directly to the TV. Avoid connecting the DVD player to a VCR or TV/VCR combination.	18
The DVD 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.)	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.	56, 62
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.	• Turn the power on or off with the POWER button. Or 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 player.	• Point the remote control at the remote sensor of the DVD player.	15
	• The remote control is too far from the DVD 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 player / outputs / supplied accessories

DVD player

Power supply	120 V AC, 60 Hz
Power consumption	17 W
Mass	3.0 kg
External dimensions	430 × 81 × 311 mm (W/H/D)
Signal system	Standard NTSC
Laser	Semiconductor laser, wavelength 650 nm / 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	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) 0.286 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 (BITSTREAM/PCM OPTICAL)	Optical connector × 1
Audio output (BITSTREAM/PCM COAXIAL)	0.5 V (p-p), 75 Ω, pin jack × 1
Audio output (2CH AUDIO)	2.0 V (rms), 220 Ω, pin jacks (L, R) × 1

Supplied Accessories

Audio/video cable 1
Remote control (SE-R0058) 1
Batteries (AA) 2
Power cord 1

• Designs and specifications are subject to change without notice.

Others

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LIMITED WARRANTY DVD PLAYER

Toshiba America Consumer Products, Inc. ("TACP"), Toshiba Hawaii ("THI") and Toshiba Canada Limited ("TCL") make the following limited warranties. These limited warranties extend to original purchaser or any person receiving this set as a gift from the original purchaser and to no other purchaser or transferee.

Limited Ninety (90) Day Warranty
TACP/THI warrant this product against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase. During this period, TACP/ THI will repair or replace a defective product or part, at their option, with a new or refurbished product or part without charge to you. You must deliver the entire product to a TACP/THI Authorized Service Station. You are responsible for all transportation and insurance charges for the unit to and from the Authorized Service Station. If you live in the U.S.A. you may, at your option, return your DVD Unit to:
    Toshiba America Consumer Products Inc.
    Returns Center
    1420C Toshiba Dr.
    Lebanon, TN 37087
Upon receipt we will, at our option, exchange the DVD Unit with a new or refurbished unit. **Canadian consumers are requested to contact TCL. In Hawaii consumers are requested to contact THI.**

Limited One (1) Year Warranty
TACP/THI further warrant the parts in this product against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. During this period, TACP/THI will repair or replace a defective product or part, at their option, with a new or refurbished product or part without charge to you, except that if a defective part is replaced after ninety (90) days from the date of the original retail purchase you pay labor charges involved in the replacement. You must also deliver the entire product to a TACP/THI Authorized Service Station. You are responsible for all transportation and insurance charges for the unit to and from the Authorized Service Station. If you live in the U.S.A. you may, at your option, return your DVD Unit to:
    Toshiba America Consumer Products Inc.
    Returns Center
    1420C Toshiba Dr.
    Lebanon, TN 37087
Upon receipt we will, at our option, exchange the DVD Unit with a new or refurbished unit. **Canadian Consumers are requested to contact TCL. In Hawaii consumers are requested to contact THI.**

Rental Units
The warranty for rental units begin with the first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

Commercial Units
Products sold and used for commercial use have a limited ninety (90) day warranty for all parts and labor.

Owner's Manual
You should read the owner's manual thoroughly before operating this product. You should complete and mail the enclosed Demographic card within ten (10) days after you, or the person who has given you this product as a gift, purchased this product. This is one way to enable TACP to provide you with better customer service and improved products. Failure to return the card will not affect your rights under this warranty.

Your Responsibility
The above warranties are subject to the following conditions:
(1) You must retain your bill of sale or provide other proof of purchase.
(2) You must notify a TACP/THI/TCL /Authorized Service Station within thirty (30) days after you discover a defective product or part.
(3) All warranty servicing of this product must be made by a TACP/THI/TCL Authorized Service Station.
(4) U.S.A. warranties are effective only if the product is purchased and operated in the Continental U.S.A. or Puerto Rico.
(5) Labor service charges for set installation. Set up, adjustment of customer controls and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems are your responsibility.
(6) Warranties extend only to defects in materials or workmanship as limited above and do not extend to any product or parts which have been lost or discarded by you or to damage to products or parts caused by misuse, accident, damage caused by Acts of God, such as lighting or fluctuations in electric power, improper installation, improper maintenance or use in violation of instructions furnished by us; or to units which have been altered or modified without authorization of TACP/ THI/TCL or to damage to products or part thereof which have had the serial number removed, altered, defaced or rendered illegible.
(7) Should you elect to return your DVD Unit to TACP after the ninety (90) days and within one (1) year, or after the warranty period has expired: Call (800)-631-3811 to receive information concerning an exchange price. Payment must be enclosed with product in the form of a certified check or money order including reason for return.
(8) Physically damaged DVD Units are not acceptable for repair or exchange whether in or out of warranty and will be returned as received.

How to Obtain Warranty Service

(1) Refer to the troubleshooting guide in your owner's manual. This check list may solve your problem.

(2) In the U.S.A., only call the TACP toll free number 800-631-3811, or if in Hawaii or Canada see listing below within (30) days after you find a defective product or part.

(3) Arrange for the delivery of the product to the TACP/THI/TCL Authorized Service Station or TACP Return Center. Products shipped to the Service Station must be insured and safely and securely packed, preferably in the original shipping carton, and a letter explaining the defect and also a copy of the bill of sale or other proof of purchase must be enclosed.

In the Continental United States contact:

Toll Free
800-631-3811

In Hawaii contact:
Toshiba Hawaii Inc.
327 Kamakee Street
Honolulu, HA 96814
(808)-521-5377

In Canada contact:
Consumer Electronics Group
191 McNabb Street
Markham, Ontario L3R 8H2
(905)-470-5400

Consumer Electronics Group
22171 Fraserwood Way
Richmond, B.C. V6W 1J5
(604)-303-2500

Consumer Electronics Group
1643 North Service Road
Droval, QC H9P 1J1
(514)-856-4100

All warranties implied by state law, including the implied warranties of merchantability and fitness for a particular purpose, are expressly limited to the duration of the limited warranties set forth above. With the exception of any warranties implied by state law as hereby limited, the foregoing warranty is exclusive and in lieu of all other warranties, guarantees, agreements and similar obligations of manufacturer or seller with respect to the repair or replacement of any parts. In no event shall TACP/THI be liable for consequential or incidental damages.

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever. The time within which an action must be commenced to enforce any obligation of TACP/THI arising under the warranty or under any statute, or law of the United States or any state thereof, is hereby limited to ninety (90) days from the date you discover or should have discovered, the defect. This limitation does not apply to implied warranties arising under state law.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state. Some states do not allow limitation on how long an implied warranty lasts, when an action may be brought, or the exclusion or limitation of incidental or consequential damages, so the above provisions may not apply to you.

ATTENTION CANADIAN CONSUMERS:
Canadian consumers are requested to complete the special Canadian "Warranty Registration Form" enclosed, and forward this completed form with a copy of bill of sale to TOSHIBA OF CANADA to "Register and Validate" their warranty. Product must be purchased from an Authorized Canadian Dealer. Products purchased in the U.S.A. and used in Canada are not covered by these warranties.

IMPORTANT: PACKING AND SHIPPING INSTRUCTION
When you send the product to a Service Station, you must use the original carton box and packing material, then insert the original carton box containing the unit into another carton using more packing material.

Others

TOSHIBA   CORPORATION

1–1, SHIBAURA 1–CHOME, MINATO–KU, TOKYO 105–8001, JAPAN