LG

DVD PLAYER

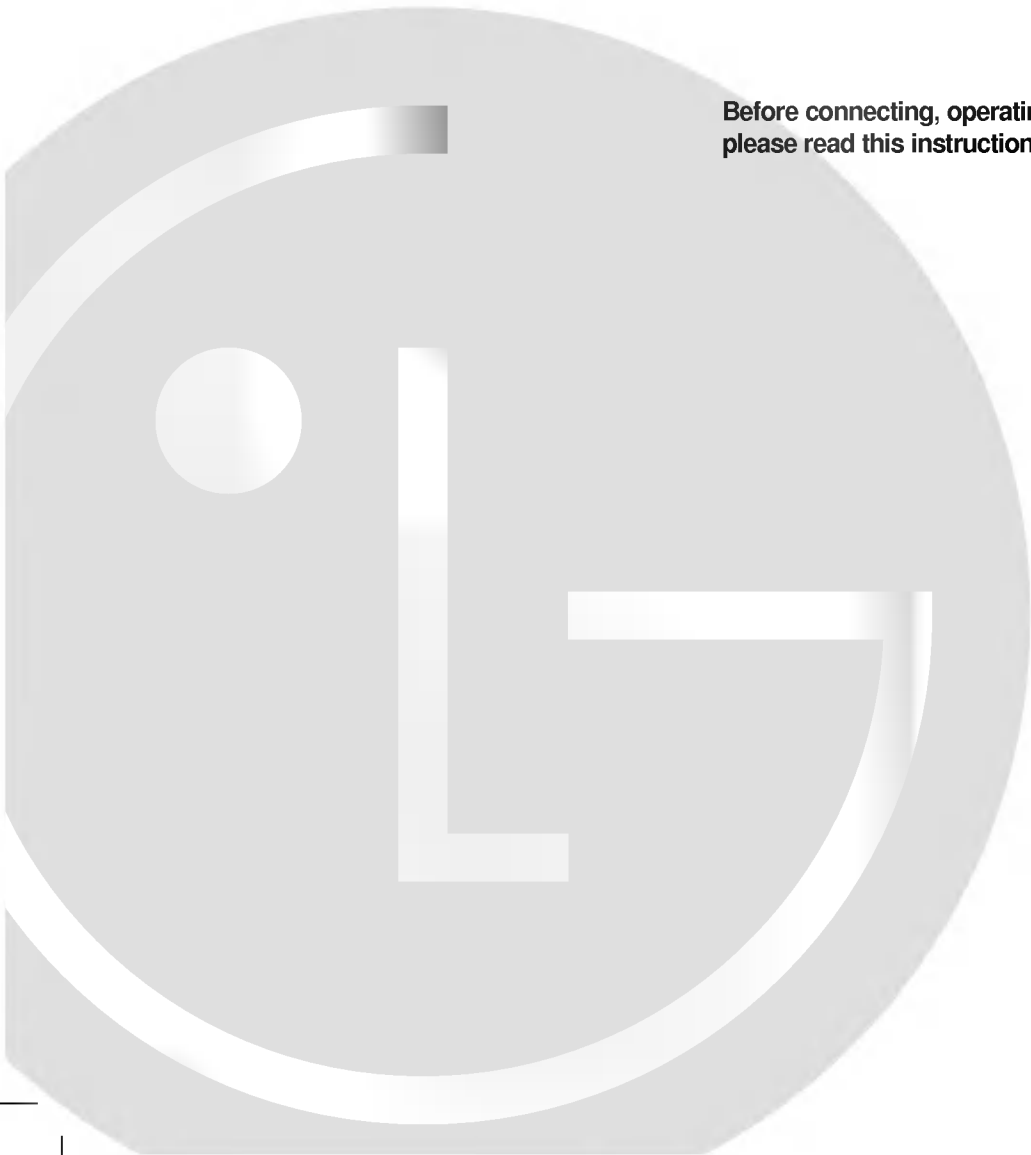## OWNER'S MANUAL

MODEL : DVD-2280P

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

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

CAUTION: THIS DVD 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, ADJUSTMENTS OR THE PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

TO PREVENT DIRECT EXPOSURE TO LASER BEAM, DO NOT TRY TO OPEN THE ENCLOSURE. VISIBLE LASER RADIATION WHEN OPEN THE ENCLOSURE. DO NOT STARE INTO BEAM.

WARNING: CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

C E *This product is manufactured to comply with the radio interference requirements of EEC DIRECTIVE 89/336/EEC, 93/68/EEC and 73/23/EEC.*

RECORD YOUR MODEL NUMBER (Now, while you can see it)

The model and serial number of your new DVD player are located on the back of the DVD player cabinet. For your future convenience, we suggest that you record these numbers here:

MODEL NO._____

SERIAL NO._____

Notes on handling

❏ When shipping the DVD player, always use the original shipping carton and packing materials. 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 normal and 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

❏ 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, move 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.

Warning: Cleaning and adjustment of lenses and/or other components of playback mechanism should be performed by a qualified service technician.

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.
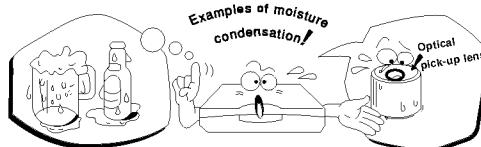
Moisture condensation occurs during the following cases.

❏ 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.
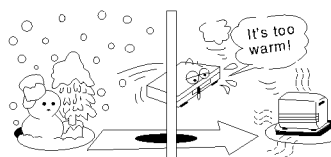
❏ **Do not use the DVD player when moisture condensation may occur.**
If you use the DVD player in such a situation, it may damage discs and internal parts. Remove the disc, connect the power cord of the DVD player to the wall outlet, turn on the DVD player and leave it "ON" for two or three hours. After 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.
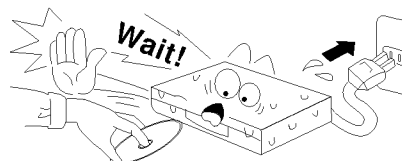
This section shows you how to handle, clean, and store discs.

On Handling Discs

❍ Do not touch the playback side of the disc.

❍ Do not attach paper or tape to discs.

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.

On Cleaning Discs

❍ Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the center outward with a soft cloth. Always keep the disc clean.
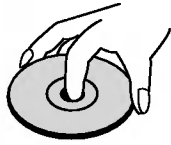❍ If you cannot wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth and finish with a dry cloth.
❍ Do not use any type of solvents such as thinner, benzine, commercially available cleaners or anti-static spray for vinyl LPs. They may damage the disc.

About This Owner's Manual

❍ This owner's manual explains the basic instructions of this DVD player.
❍ Some DVD video discs have functions that may not be explained in this owner's manual. Therefore, some instructions may differ from this owner's manual, and there may be extra instructions. In this case, follow the instructions displayed on the TV screen or package.
❍ " ⊘ " may appear on the TV screen during operation. This icon means the function explained in this owner's manual is not available on that specific DVD video disc.

POWER/Standby button
and indicator
(Power ON mode: Green color
Standby mode: Red color)

PAUSE/STEP button

MENU button

Display window

SELECT/ENTER button

slow/scan

SHUTTLE
Ring

ARROW
buttons

Disc tray

SKIP buttons

OPEN/CLOSE button

PLAY button

STOP button

Display Window

DVD indicator

CD indicator

Repeat playback
mode indicators

Title number indicator

Random indicator

TITLE PROG. CHP / TRK   CD   TOTAL   ALL A ⊃ B RANDOM

Total playing time/elapsed time indicators

Chapter/track number indicator

Operating status indicator

Angle icon indicator

COAXIAL DIGITAL AUDIO OUT jack

AUDIO OUT(R/L) jacks

EXTERNAL INPUT (SCART 2) jack

DOLBY DIGITAL 5.1CH

AUDIO OUT

EXTERNAL INPUT (SCART 2)

DIGITAL OUT

S-VIDEO OUT
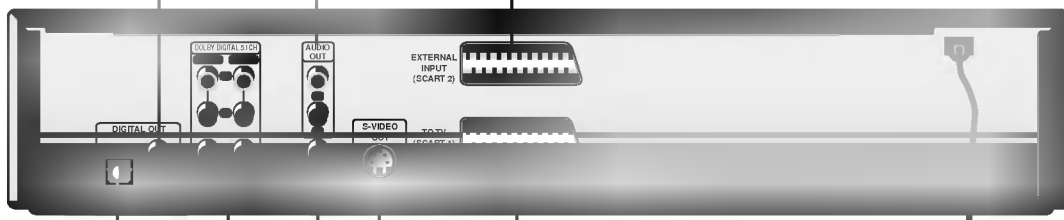
TO TV (SCART 1)

TO TV (SCART 1) jack

S-VIDEO OUT jack

VIDEO OUT jack

DOLBY DIGITAL AUDIO OUT jacks

POWER CORD
Connect to an AC 200-240V, 50Hz outlet only.

OPTICAL DIGITAL AUDIO OUT jack
Remove the dust protection cap from the connector and connect the optical digital cable (not supplied) firmly so that the configurations of both the cable and the connector match. Keep the dust protection cap and always reattach the cap when not using the connector to protect against dust.
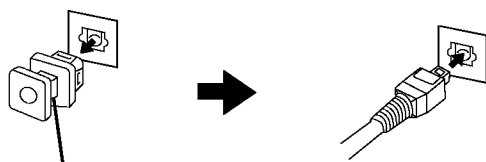
Dust protection cap

REMOTE CONTROL

You will find instructions for each of the remote control functions in the appropriate sections of this instruction manual.

POWER button

PLAY button

REV SKIP button

PAUSE/STEP button

SELECT/ENTER button

RESUME button

DISPLAY button

NUMBER buttons

CLEAR button

ANGLE button

SUBTITLE button

AUDIO button

SETUP button

REPEAT button

A-B button

RANDOM button

FWD/REV SLOW/SCAN
Shuttle Ring

STOP button

FWD SKIP button

OPEN/CLOSE button

** ARROW buttons

RETURN button

SOUND button

PROGRAM button

*MENU button

***TITLE button

MARKER-SEARCH buttons

ZOOM button

***TITLE button
Use the TITLE button to display the title screen included on DVD video discs. To operate a menu screen, follow the instructions in "Using a Title Menu" (page 23).

*MENU button
Use the MENU button to display the menu screen included on DVD video discs. To operate a menu screen, follow the instructions in "Using a DVD Menu" (page 23).

** Directional arrow buttons (up, down, left, right) for use in highlighting a selection on a GUI menu screen, TITLE and MENU screen.

Preparing the Remote Control

Insert the batteries into the remote control so you can use it to operate the DVD player.
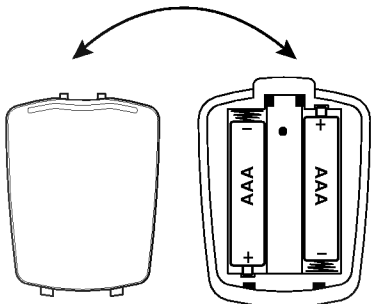
Open the battery cover.

Insert batteries (AAA size).

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

Close the cover.

❍ Improper use of batteries may cause battery leakage and corrosion.
❍ To operate the remote control correctly, follow the instructions below.
❍ Do not insert the batteries into the remote control in the wrong direction.
❍ Do not charge, heat, open, or short-circuit the batteries. Do not throw the batteries into 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.
❍ The batteries should last about one year with normal use.

Operating with the Remote Control

This section shows you how to use the remote control.

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

30° 30°
Within about 23 ft (about 7 m)
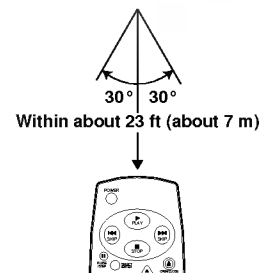
Distance: About 23 ft (7 m) from the front of the remote sensor
Angle: About 30° in each direction of the front of the remote sensor
* Do not expose the remote sensor of the DVD player to a strong light source such as direct sunlight or illumination. If you do so, you may not be able to operate the DVD player with 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 extremely hot or humid place.
❍ Do not spill water or put anything wet on the remote control.
❍ Do not open the remote control.

Connect the DVD player to your TV

If the DVD player is connected to the TV through a video cassette recorder, the picture may not be played back normally with some DVDs. So we strongly recommended you not to connect the DVD player to your video cassette recorder when setting up your home entertainment system.

• To view pictures from the video cassette recorder, set the player to the standby mode.
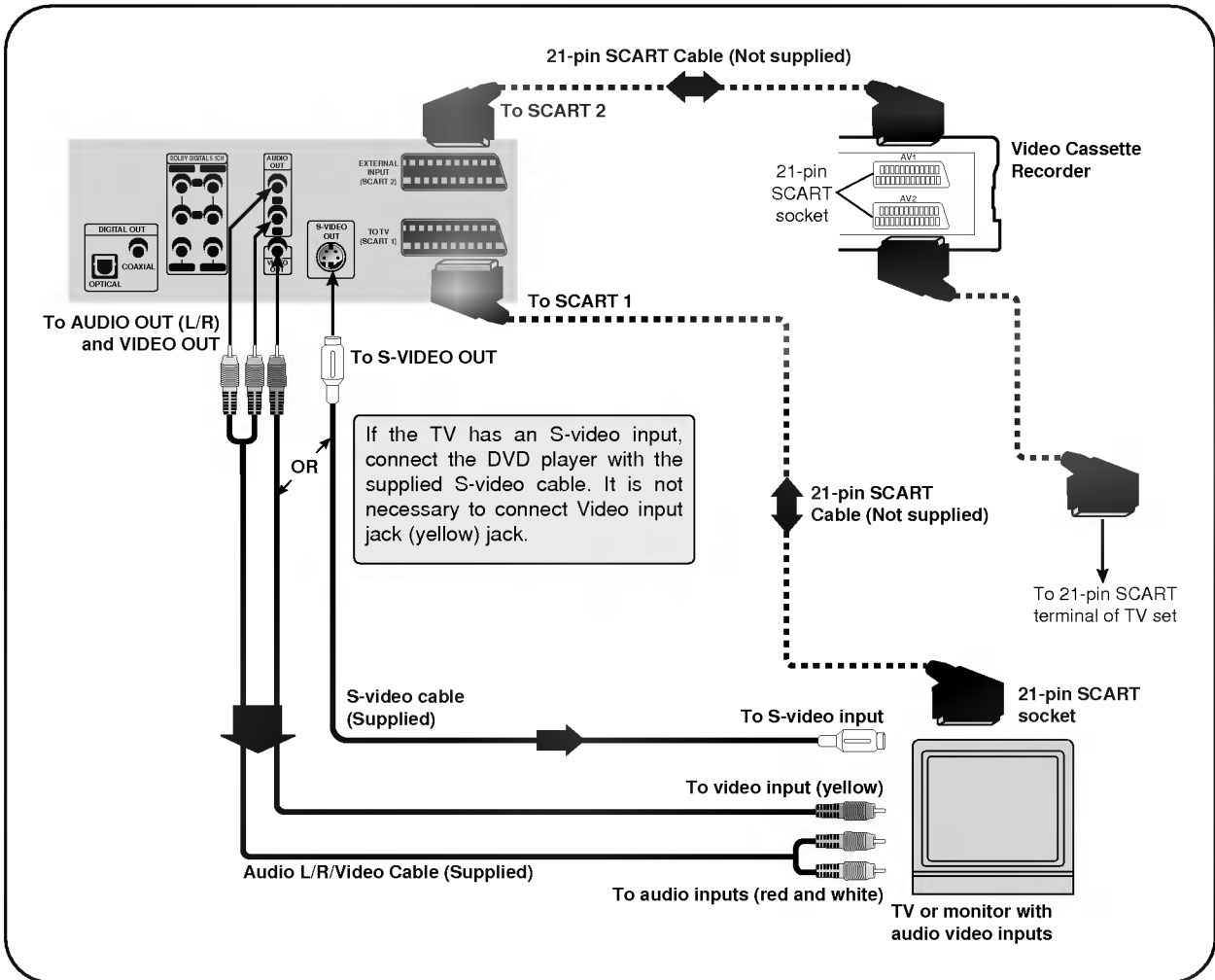
❍ Refer to the owner's manual of your TV as well.

❍ 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 DVD player to a Y cable adapter (not supplied) and then connect to your TV.

❍ Connect the DVD player to your TV directly. If you connect the DVD player to a VCR, the playback picture will be distorted because DVD video discs are copy protected.

⚠ **Warning**

Do not set the Digital Audio Output of this DVD player to "Dolby Digital" unless you are connecting the coaxial digital audio jack of this DVD player to an AV decoder that has the Dolby Digital (AC-3) decoding function. High volume sound may damage your hearing as well as the speakers. (Refer to "Selecting Digital Audio Output" on page 37.)

You can listen to the sound of audio CDs and DVD video discs in stereo.

DOLBY DIGITAL 5.1CH
AUDIO OUT
EXTERNAL INPUT (SCART 2)
DIGITAL OUT
S-VIDEO OUT
TO TV

To AUDIO OUT (L/R) and VIDEO OUT

To S-VIDEO OUT

If the TV has an S-video input, connect the DVD player with the supplied S-video cable. It is not necessary to connect Video input jack (yellow) jack.

OR

S-video cable (Supplied)

To S-video input

To video input (yellow)

Video Cable

TV or monitor with audio/video inputs

To audio inputs (red and white)

Audio(L/R) Cable

Audio system

❍ Refer to the owner's manual of your audio system 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, move 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 receiver before you connect or disconnect the DVD player's power cord. If you leave the receiver power on, the speakers may be damaged.
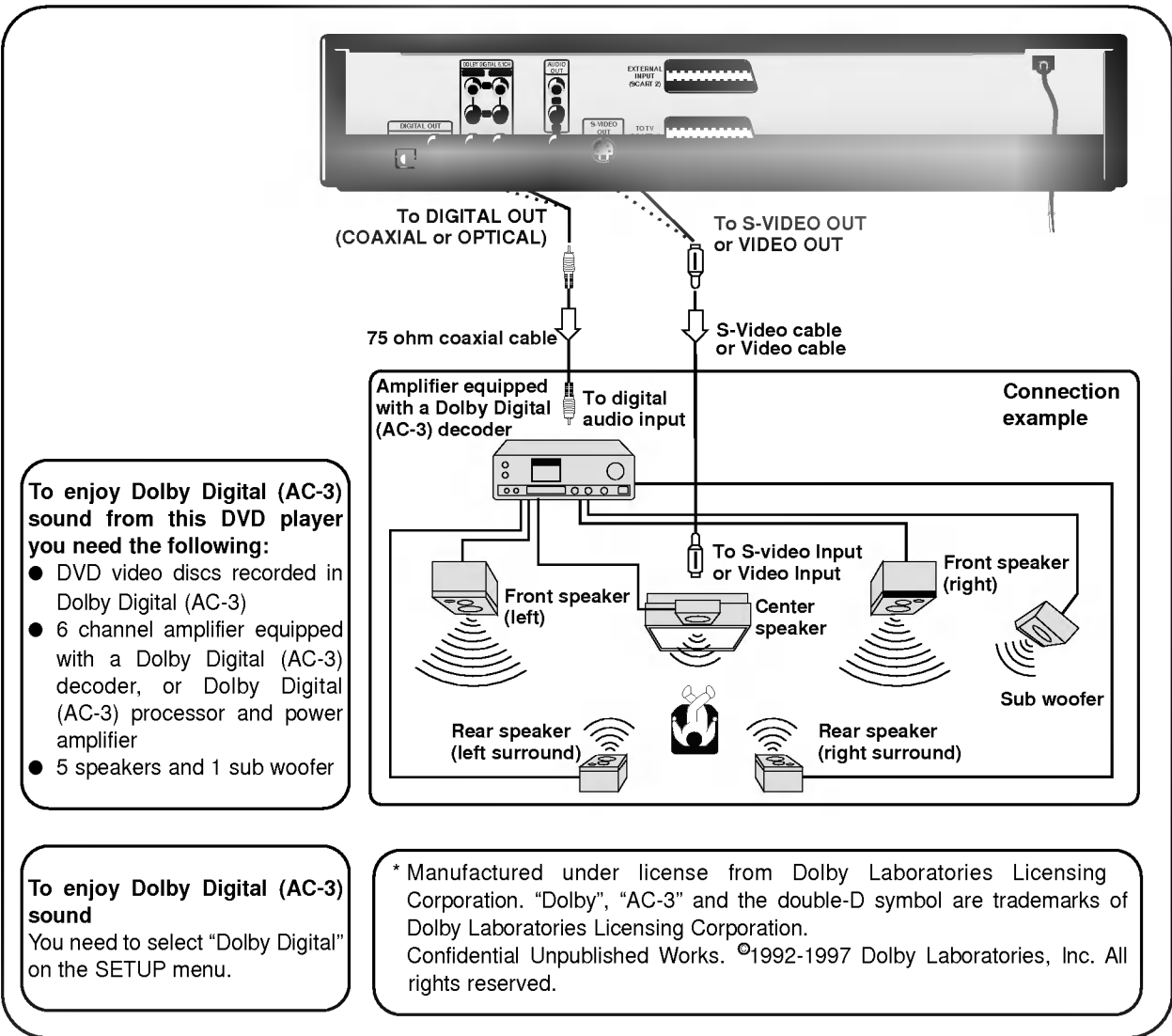
⚠ **Warning**
Do not set the Digital Audio Output of this DVD player to "Dolby Digital" unless you are connecting the coaxial digital audio jack of this DVD player to an AV decoder that has the Dolby Digital (AC-3) decoding function. High volume sound may damage your hearing as well as the speakers. (Refer to "Selecting Digital Audio Output" on page 37.)

Enjoying Dolby Digital (AC-3) Sound

You can enjoy the high quality dynamic sound of Dolby Digital (AC-3), Dolby Pro Logic, and 2 Channel Digital Stereo.

Dolby Digital (AC-3)

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 (AC-3) decoder or Dolby Digital (AC-3) processor.

To DIGITAL OUT
(COAXIAL or OPTICAL)

To S-VIDEO OUT
or VIDEO OUT

75 ohm coaxial cable

S-Video cable
or Video cable

Amplifier equipped with a Dolby Digital (AC-3) decoder

To digital audio input

Connection example

To S-video Input or Video Input

Front speaker (right)

Front speaker (left)

Center speaker

Sub woofer

Rear speaker (left surround)

Rear speaker (right surround)

To enjoy Dolby Digital (AC-3) sound from this DVD player you need the following:
● DVD video discs recorded in Dolby Digital (AC-3)
● 6 channel amplifier equipped with a Dolby Digital (AC-3) decoder, or Dolby Digital (AC-3) processor and power amplifier
● 5 speakers and 1 sub woofer

To enjoy Dolby Digital (AC-3) sound
You need to select "Dolby Digital" on the SETUP menu.

* Manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby", "AC-3" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
Confidential Unpublished Works. ©1992-1997 Dolby Laboratories, Inc. All rights reserved.

❍ Refer to the owner's manual of your audio 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.
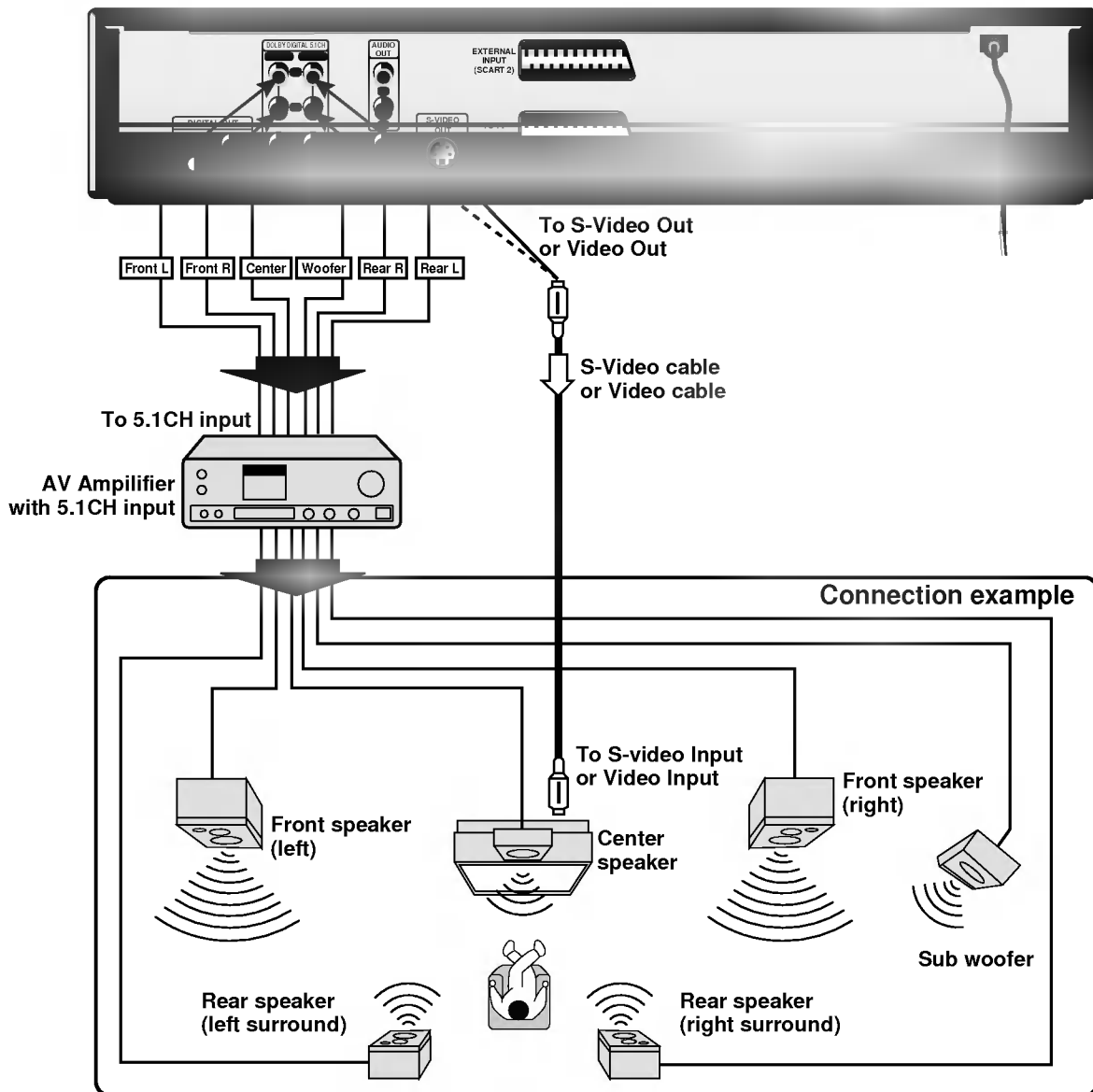
Enjoying Dolby Digital (5.1 CH) Sound

Dolby Digital Surround (5.1 CH)
Dolby Digital (AC-3) is a six-channel digital surround sound technology developed by Dolby Laboratories for theater-like surround sound reproduction. DVDs supporting Dolby Digital (AC-3) technology feature the ▯▯▯ logo. You can enjoy realistic, theater-like surround sound from DVD movie or music disc featuring this logo. Two front, one center and two rear speakers plus a subwoofer make up the "5.1-channel" audio system that Dolby Digital (AC-3) uses.
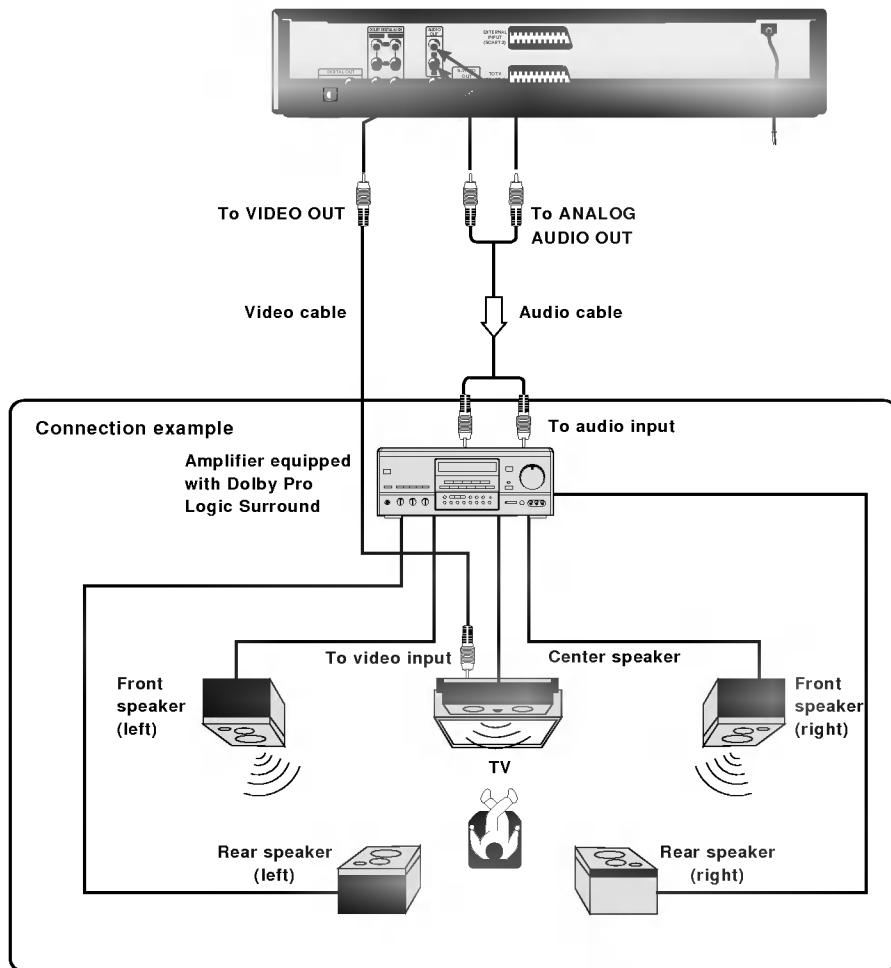
Hookups
Connect an amplifier with 5.1 channel inputs to the player and to the speakers. See the figure below.

Enjoying Dolby Pro Logic Surround Sound

Dolby Pro Logic Surround
You can still enjoy the excitement of Surround Sound even if your A/V receiver does not offer Dolby Digital (AC-3) decoding. If your A/V receiver has a Dolby Pro Logic decoder. Refer to the following connection diagram.

To VIDEO OUT   To ANALOG AUDIO OUT

Video cable   Audio cable

Connection example   To audio input

Amplifier equipped with Dolby Pro Logic Surround

To video input   Center speaker

Front speaker (left)   Front speaker (right)

TV

Connect one or two rear speakers. The output sound from the rear speakers will be monaural even if you connect two rear speakers.
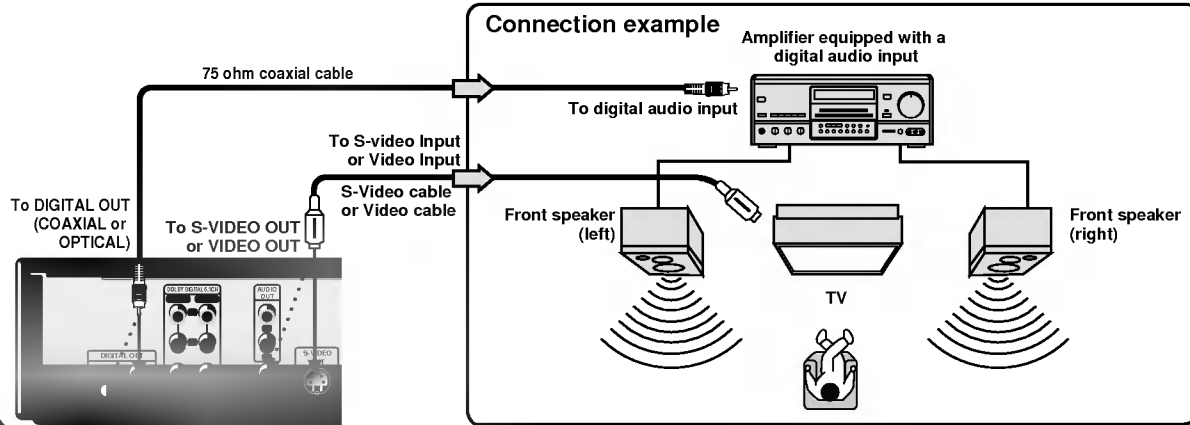
Rear speaker (left)   Rear speaker (right)

● **With a receiver equipped with Dolby Digital (AC-3)**
Connect the equipment the same way as described in "Enjoying Dolby Digital (AC-3) Sound" on the previous page. Refer to that receiver's owner's manual and set the receiver so you can enjoy Dolby Pro Logic Surround sound.

⚠ **Warning**
Do not set the Digital Audio Output of this DVD player to "Dolby Digital" unless you are connecting the coaxial digital audio jack of this DVD player to an AV decoder that has the Dolby Digital (AC-3) decoding function. High volume sound may damage your hearing as well as the speakers. (Refer to "Selecting Digital Audio Output" on page 37.)
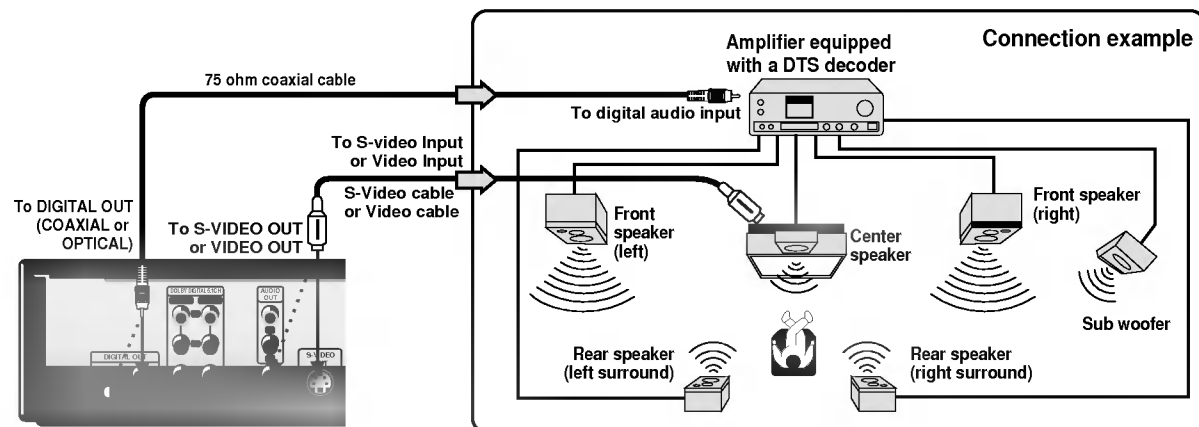
Enjoying 2 Channel Digital Stereo Sound

2 Channel Digital Stereo
You can enjoy the dynamic sound of 2 Channel Digital Stereo by connecting this DVD player to a receiver equipped with a digital audio input and speaker system (right and left front speakers).

Connection example

Amplifier equipped with a digital audio input

75 ohm coaxial cable

To digital audio input

To S-video Input or Video Input

S-Video cable or Video cable

To DIGITAL OUT (COAXIAL or OPTICAL)

To S-VIDEO OUT or VIDEO OUT

Front speaker (left)

Front speaker (right)

TV

Enjoying DTS Sound

Introducing DTS Digital Surround™...the finest technology ever invented to transform existing "home theater" systems into six discrete channels of exceptionally clear, better-than-compact disc, digital audio performance. DTS Digital Surround is the only 5.1 surround sound format that can deliver this revolutionary 3-dimensional experience through new music recordings on compact discs, original 5.1 soundtracks on motion picture laserdiscs, and soon, a wide variety of products on DVD.

Connection example

Amplifier equipped with a DTS decoder

75 ohm coaxial cable

To digital audio input

To S-video Input or Video Input

S-Video cable or Video cable

To DIGITAL OUT (COAXIAL or OPTICAL)

To S-VIDEO OUT or VIDEO OUT

Front speaker (left)

Center speaker

Front speaker (right)

Sub woofer

Rear speaker (left surround)

Rear speaker (right surround)

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

❍ Refer to the owner's manual of your receiver 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 receiver before you connect or disconnect the DVD player's power cord. If you leave the receiver power on, the speakers may be damaged.

This section shows you the basics on how to play back a DVD video disc.
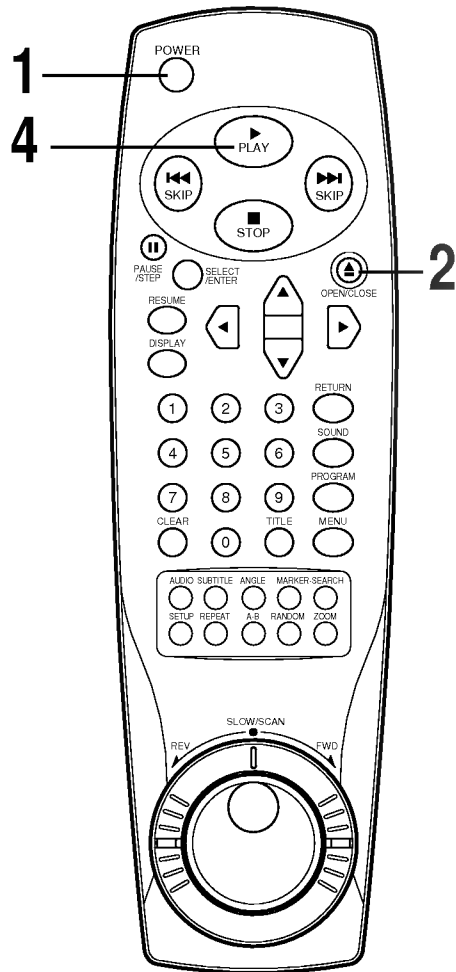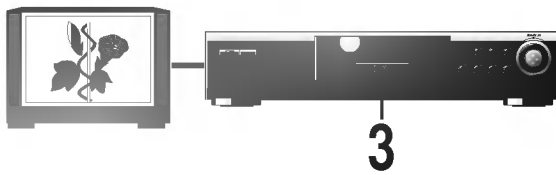
Preparations
● When you want to play back DVD video discs, turn on the TV and select the video input source connected to the DVD player.
● When you want to enjoy the sound of DVD video discs or audio CDs from the audio system, turn on the audio system and select the input source connected to the DVD player.
● For connection details, see pages 10 through 15.
● Set the playback picture size according to the aspect ratio of the connected TV.
● If you do not have the necessary equipment to enjoy Dolby Digital (AC-3) sound, set the Digital Audio Output at the SETUP menu to "PCM".

Press POWER.
The DVD player turns on and the power indicator goes on.

**Press OPEN/CLOSE.**
The disc tray opens.
● You can open the disc tray by pressing this button even if the DVD player is turned off.

Place a disc on the disc tray with the playback side down.
● If the disc is placed in upside down (and it is a single sided disc), the DVD display will indicate "NO DISC" or "DISC ERROR".
● 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.
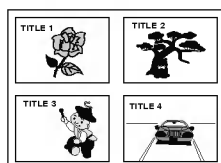● Do not place anything except 3" discs or 5" discs on the disc tray.

Press PLAY.
The disc tray is automatically closed and playback begins.
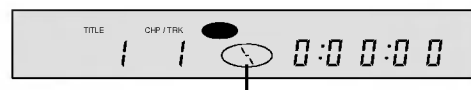
playback indicator

● If you insert an audio CD, the CD indicator lights up in the DVD display.
The title number does not appear.
● After playing back all of the chapters in the title, the DVD player automatically stops and returns to the menu screen.
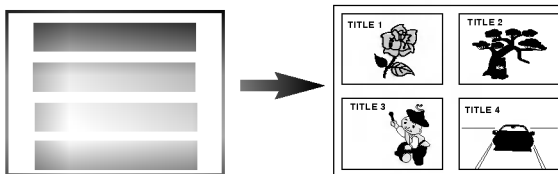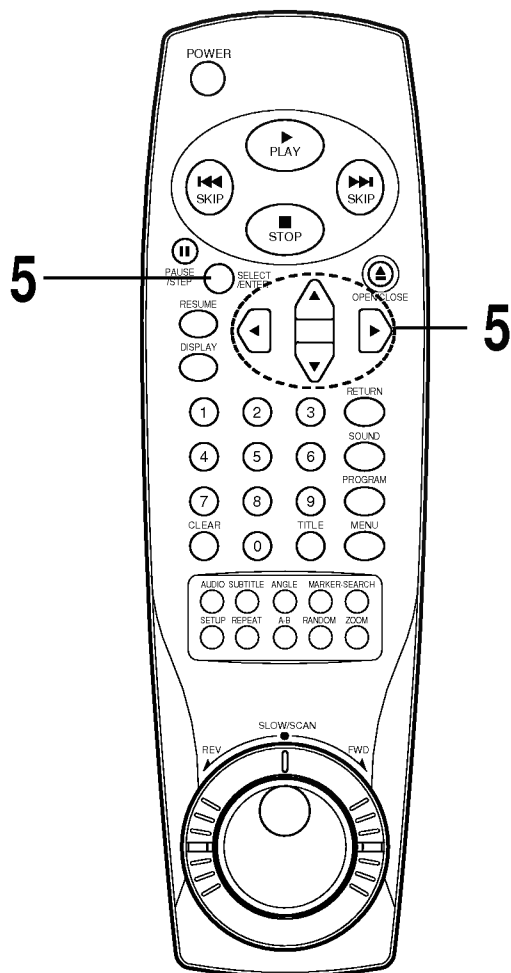
When a menu screen appears on the TV screen.
In case of interactive DVDs with control, a menu screen appears on the TV screen. Perform step 5 on page 17 to start play.

Example of interactive DVD On-Screen Menu

Press ▲/▼/◄/► and press SELECT/ENTER, or press the numeric button(s), to select the desired item.


Play of the selected item now begins.

● For further info, refer to the jacket or case of the disc you are playing.

After operation
When the unit is not in use, remove the disc and press POWER to turn off the power.

❍ Do not move the DVD player during playback. Doing so may damage the disc.
❍ Use the OPEN/CLOSE button on the remote control or DVD player 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 the disc tray or put any objects other than discs on the disc tray. Doing so may cause the DVD video player to malfunction.
❍ Keep your fingers well clear of the disc tray as it is closing. Be especially careful with children's fingers around the closing disc tray as there is a risk of personal injury.
❍ When " ⊘ " appears on the TV screen while a button is pressed, it means that this function is not available on the disc you are playing.
❍ Depending on the DVD disc, some operations may be different or restricted. Refer to the jacket or case of the disc you are playing.

DVD CD
VIDEO DIGITAL AUDIO
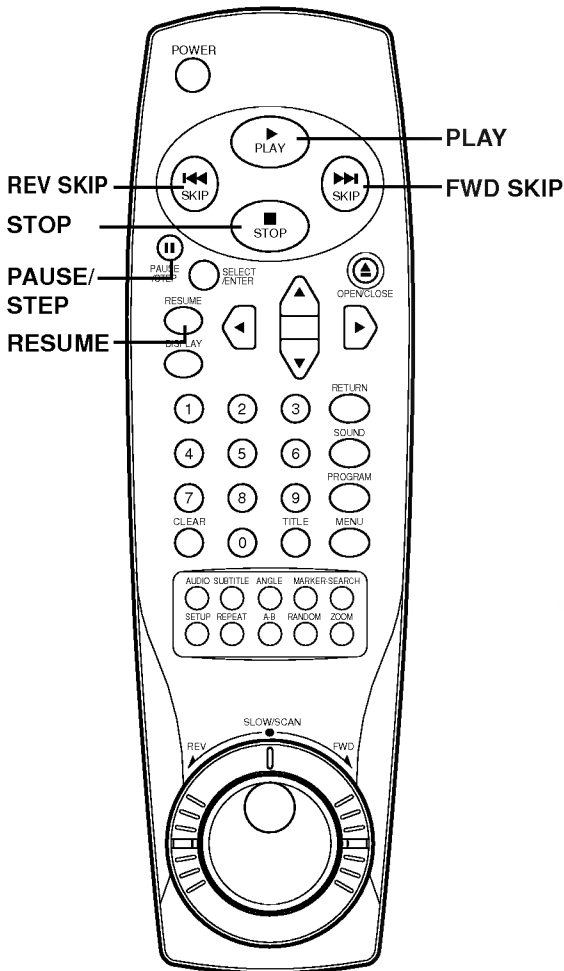
Press STOP during playback.

For your convenience

● When play is stopped, the unit records the point where STOP was pressed (RESUME function). Press RESUME, and play will resume from this point. When the tray is opened or PLAY is pressed again, the RESUME function will be cleared.
The RESUME function works only with discs for which the elapsed playing time appears on the window display during playback.
This feature will be cleared when the power is turned OFF and then ON.

❍ The Resume function may not be available on some DVD discs.
❍ If the player is left in the stop mode for more than 8 minutes, the power shuts off automatically.

Still Picture (Pause)/Playing Frame by Frame

Press PAUSE/STEP during playback.
● DVD
The player will be placed in the still picture mode.
● CD
The player will be placed in the pause mode.

Also you can advance a DVD video disc frame by frame. Each time you press the PAUSE/STEP button during still playback, the picture advances one frame.

To return to normal playback, press PLAY.

Skipping forward
Press SKIP ▶▶| during play.
A chapter (DVD) or a track (CD) is skipped each time the button is pressed.

Skipping back
Press SKIP |◀◀ during play.
● When the button is pressed once midway through a chapter/track, the player returns to the start of that chapter/track. When it is pressed again, a chapter/track is skipped each time the button is pressed.

POWER

PLAY
REV SKIP — SKIP   SKIP — FWD SKIP
STOP — STOP

PAUSE/ — PAUSE   SELECT/ENTER   OPEN/CLOSE
STEP — RESUME
RESUME — DISPLAY

RETURN
① ② ③
SOUND
④ ⑤ ⑥
PROGRAM
⑦ ⑧ ⑨
CLEAR ⓪ TITLE MENU

AUDIO SUBTITLE ANGLE MARKER-SEARCH
SETUP REPEAT A-B RANDOM ZOOM

SLOW/SCAN
REV   FWD

Various speed playback with Shuttle Ring

You can play back discs at various speeds, and resume normal playback.

PLAY

SLOW/SCAN Shuttle ring
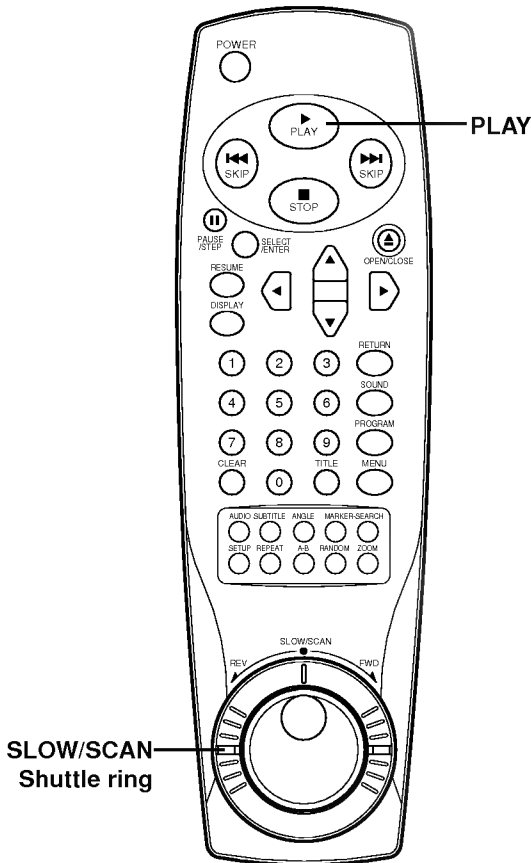
In the PAUSE mode, rotate and hold SHUTTLE ring to the positions indicated gives those slow modes.

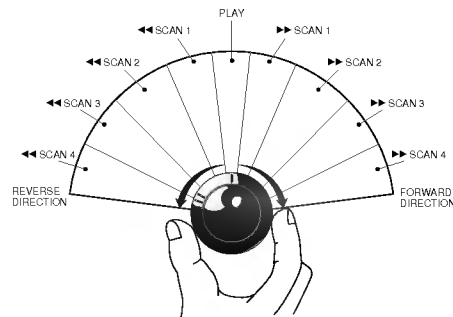● The variable-speed slow picture will appear on the TV screen.
Release the SHUTTLE ring to resume the still picture mode.
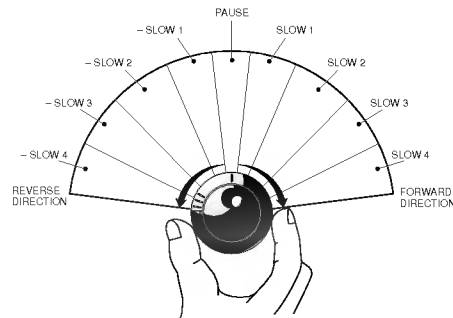
In the PLAYBACK mode, rotate and hold SHUTTLE ring to the positions indicated gives those fast search modes.

● The variable-speed search picture will appear on the TV screen.
Release the SHUTTLE ring to resume normal playback.

❍ The DVD player does not play back sound during slow-motion playback, the high speed reverse and forward playback of DVD video discs.
However, the DVD player plays back sound during fast forward or fast reverse playback of audio CDs.
❍ Subtitles do not appear on the screen during slow motion playback.
❍ The DVD player provides four (4) scan speeds for DVD movie play. Only two (2) scan speeds are available during Audio CD play.

Resuming Playback from the same location

You can stop playback and resume playback later from the same location on the disc.

Press STOP at the location where you want to interrupt playback.
● The DVD player memorizes the location where you stopped playback.
● The DVD player stores that location in its memory, unless you turn off the player or open the disc tray.
● Opening the disc tray cancels this function.

Press RESUME.
The DVD player resumes playback immediately before the location where you stopped playback.
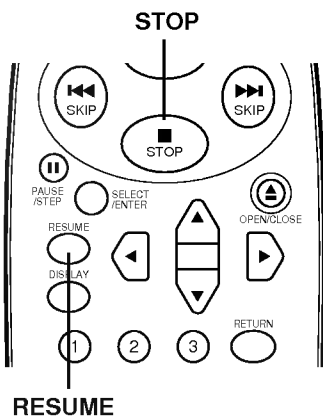
STOP

RESUME

❍ The Resume function is cancelled if the DVD player is disconnected from the wall outlet, or if power is interrupted.
❍ The DVD player resumes playback from the beginning of the stopped chapter or track in case of audio CD.
❍ The Resume function may not be available on some DVD discs.

This unit features GUI Menu Icons showing disc information (title/chapter/track number, elapsed playing time, audio/subtitle language, angle, and sound) and player information (repeat play, play mode, marker, etc.). Some icons only show the indicated information. Other icons allow the settings to be changed.
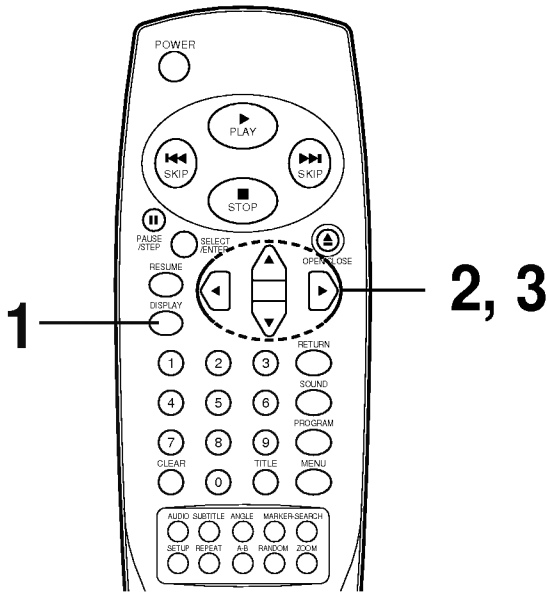
Common procedures

Press DISPLAY during playback.

● Title function can be accessed from the stop mode.

Press ▲/▼ to select the desired item.

● The currently selected item is indicated by a yellow frame on its GUI menu icons.

Press ◄/► to select the desired setting.

● When numbers are displayed (e.g. title No.), the numeric buttons can also be used for setting instead of ◄/►.
● For some functions, the setting will be registered immediately; for others, SELECT/ENTER must be pressed.

Press DISPLAY to clear the GUI Menu Icons.

Examples of GUI Menu Icons.
(The screens may differ depending on the disc contents.)
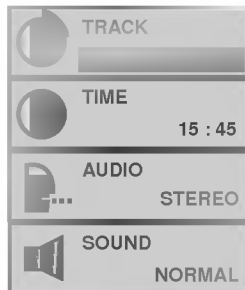
TITLE		MARKER
CHAPTER 1	TRACK	REPEAT
TIME 0 : 15 : 45	TIME 15 : 45	A
AUDIO 1 ENGLISH D 6CH	AUDIO STEREO	REPEAT
SUBTITLE OFF	SOUND NORMAL	
ANGLE 1		
SOUND NORMAL		
(DVD GUI)	**(CD GUI)**	**(DVD and CD GUI)**

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

Press DISPLAY during playback.
[TV screen] DVD GUI

	FUNCTION (Press ▲/▼ to select desired item)	SELECTION METHOD
TITLE	To show the current title No. and to jump to the desired title No.	◀/▶, or Numeric SELECT/ENTER
CHAPTER 1	To show the current chapter No. and to jump to the desired chapter No.	◀/▶, or Numeric SELECT/ENTER SKIP
TIME 0 : 15 : 45	To show the elapsed time and directly select scenes by the elapsed time.	Numeric SELECT/ENTER
AUDIO 1 ENGLISH ⏍⏍D 6CH	To show the current audio soundtrack language, encoding method, channel No. and to change the settings.	◀/▶, AUDIO
SUBTITLE OFF	To show the current subtitles language and to change the setting.	◀/▶, SUBTITLE
ANGLE 1	To show the current angle No. and to change the angle.	◀/▶, ANGLE
SOUND NORMAL	To show the current sound (NORMAL or 3D SURROUND) and to change the setting.	◀/▶, SOUND

Press DISPLAY during playback.
[TV screen] CD GUI

|	FUNCTION (Press ▲/▼ to select desired item)	SELECTION METHOD
TRACK	To show the current track No. and to jump to the desired track No.	SKIP, ◀/▶,
TIME 15 : 45	To show the elapsed time. (Display only)	————
AUDIO STEREO	To show the current audio (LEFT, RIGHT, STEREO) and to select the desired audio channel.	◀/▶, AUDIO
SOUND NORMAL	To show the current sound (NORMAL or 3D SURROUND) and to change the setting.	◀/▶, SOUND

○ Some DVD discs may not provide all of the above GUI menu icons.
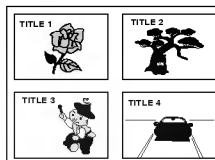
Using a title Menu

Some movie discs may contain two or more titles. If the disc has a title menu recorded on it, the TITLE button can be used to select the movie title. (The details of operation differ depending on the disc used.)
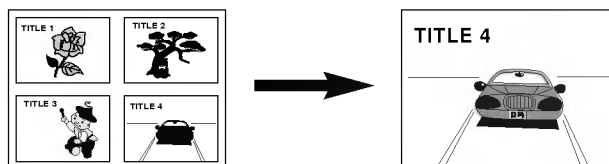● Selecting a title may not be possible on certain DVD discs.
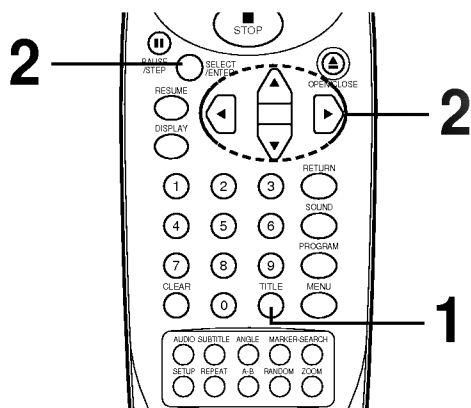
Press TITLE.
A list of the titles on the disc are displayed.

Press TITLE again to resume play from the scene when TITLE was first pressed.
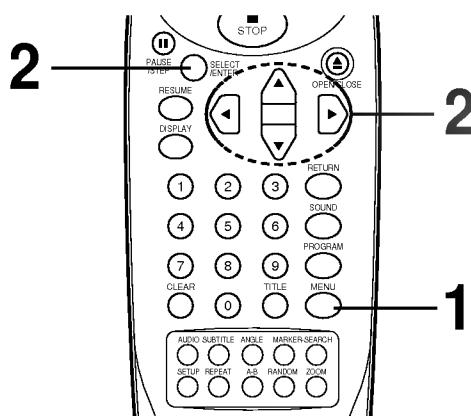
Press ▲/▼/◄/► and press SELECT/ENTER or PLAY, or press the numeric button(s), to select desired title.

The selected title now starts playing.

Using a DVD Menu

Some DVDs have unique menu structures called DVD menus. For example, DVDs programmed with complex contents provide guide menus, those recorded with various languages provide menus for audio and subtitle language. Although the DVD menu's contents and operation differ from disc to disc, the following explains the basic operation when this feature is used.

Press MENU during play.
The DVD menu available on the disc is now displayed.

Pressing MENU again resumes play from the scene when MENU was first pressed.

Press ▲/▼/◄/► and press SELECT/ENTER, or press the numeric button(s), to select desired item.
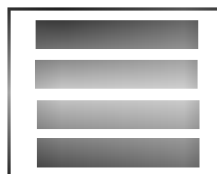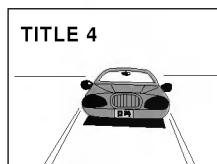

The selected item is now executed.

DVD
VIDEO

It is possible to change the subtitle language to a different language from the one selected at the initial settings. (See page 32 for further info.)
This operation works only with discs on which multiple subtitle languages are recorded.

Press SUBTITLE during playback.
When no subtitles are recorded, "OFF" will be displayed instead of the language number.
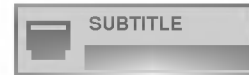
SUBTITLE

Press SUBTITLE repeatedly until the desired language is selected.

Number of the subtitle language being played back.

SUBTITLE
1   ENGLISH

To eliminate the On Screen Subtitles.
Press SUBTITLE repeatedly to select OFF at step 2.

1, 2
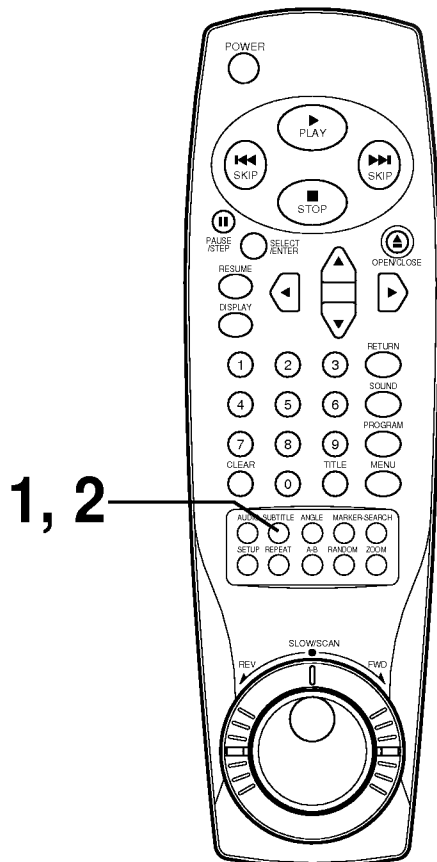
○ In some cases, the subtitle language is not changed to the selected one immediately.
○ When a disc supporting the closed caption is played, the subtitle and the closed caption may overlap each other on the TV screen. In this case, turn the subtitle off.
○ When the desired language is not selected even after pressing the button several times, it means that the language is not available on the disc.
○ When the power is turned on or the disc is removed, subtitles appears in the language selected at the initial settings. If this language is not recorded on the disc, the disc's priority language appears.

It is possible to change the audio soundtrack language to a different language from the one selected at the initial settings. (See page 32 for further info.)
This operation works only with discs on which multiple audio soundtrack languages are recorded.

• DVD

Press AUDIO during play.

Number of the audio soundtrack language being played back.

AUDIO
1 ENGLISH
■■D 6CH

Press AUDIO repeatedly until the desired language is selected.

AUDIO
2 FRENCH
■■D 2CH

• CD

Press AUDIO during play.

AUDIO

Press AUDIO repeatedly until the desired sound is selected.

AUDIO
STEREO

1, 2

❍ When the desired language is not selected even after pressing the button several times, it means that the language is not available on the disc.
❍ When the power is turned on or the disc is removed, the language heard is the one selected at the initial settings. If this language is not recorded on the disc, only the available language on the disc will be heard.
❍ Some discs may not respond to Audio feature.

Some DVDs may contain scenes which have been shot simultaneously from a number of different angles. For these discs, the same scene can be viewed from each of these different angles using the ANGLE button. (The recorded angles differ depending on the disc used.)

Press ANGLE during playback.

Number of angle being played back.

Press ANGLE repeatedly until the desired angle is selected.

1, 2

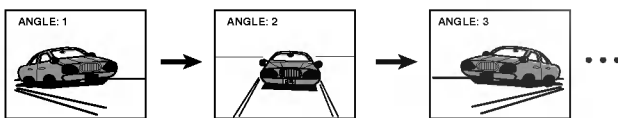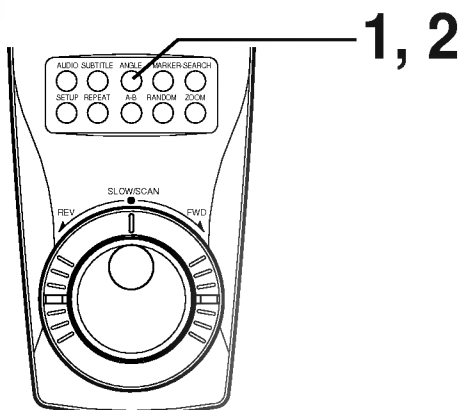○ This function only works for discs having scenes recorded at different angles.
○ The ANGLE indicator on the unit lights up at scenes recorded at different angles to indicate that angle switching is possible.
   The angle number can be programmed beforehand; the angle will be switched to the selected number when the ANGLE indicator lights up.

This unit can produce a 3D Surround effect, using Spatializer™ N-2-2™ technology, which simulates multi-channel audio playback from two conventional stereo speakers instead of the five or more speakers normally required to listen to multi-channel audio from a home theatre. This feature works with DVD discs encoded with Dolby Pro Logic, Dolby Digital (AC-3) and DTS multi-channel audio tracks.

Press SOUND during playback.

Each time this button is pressed, the TV screen display changes:
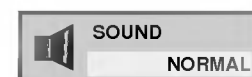
SOUND
NORMAL

Press SOUND repeatedly until the desired sound is selected.

SOUND
3D SURROUND

1, 2
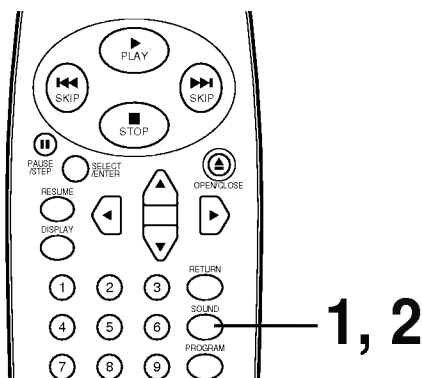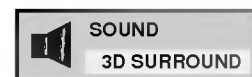
○ This 3D Surround effect may not be available on some DVD discs, such as those recorded with a mono audio soundtrack.
○ Turn off the TV surround sound and other surround effects when using this 3D surround effect.
○ For best 3D Surround effect using only two speakers it is recommended that the two speakers be positioned approximately 6' to 8' apart, and the listening position should be 6' to 8' away from the speakers.

Repeating viewing (listening)
Press REPEAT during playback.
Each time this button is pressed, the TV screen changes as shown below and the disc will repeat a chapter or title (DVD) or a track (CD).

• DVD

Repeat chapter
being played

Repeat title
being played

Cancel repeat mode
(normal play)

• CD

Repeat track
being played

Repeat entire
disc contents

Cancel repeat mode
(normal play)

To return to normal play
Press REPEAT several times until "OFF" is displayed.

Repeating sections between two specific points (A-B repeat)

Press A-B during play at the point where repeat play is to start (A).

Press A-B during play at the point where repeat play is to be concluded (B).

Repeat play of the selection between points A and B starts.

To return to normal play
Press A-B once "OFF" is displayed.

❍ Repeat play works only with discs for which the elapsed playing time appears in the DVD display window during playback.
❍ Repeat play may not work correctly with some DVDs.
❍ A-B repeat play works only within a title DVD or a track CD.
❍ A-B repeat play works only with discs for which the elapsed playing time appears in the DVD display window during playback.
❍ Some subtitles recorded around point A or B may fail to appear (DVD).

Storing a MARKER in the DVD memory is similar to marking your page in a book. It allows you to quickly return to any point on the disc.

Storing a marker in the memory

Press MARKER during play at the starting point to be viewed (listened to) again.

MARKER

Indicates "1/5" is stored in the memory.
Up to 5 markers can be stored in the memory.

Recalling/Clearing a marker

Press SEARCH during playback.

| MARKER PICTURE 1 | MARKER PICTURE 2 | MARKER PICTURE 3 |
| MARKER PICTURE 4 | MARKER PICTURE 5 | PRESENT PICTURE |
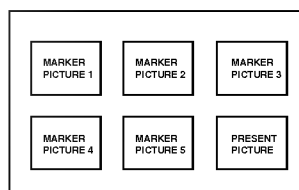
Press ▲/▼/◀/▶ to select the marker to be recalled/cleared.

Press PLAY or SELECT/ENTER to recall a marker. or Press CLEAR to clear a marker.

Play resumes from the point corresponding to the selected marker, or the selected marker is cleared.

● The "PRESENT PICTURE" is not cleared.

PLAY

SELECT/
ENTER

CLEAR

SEARCH
MARKER
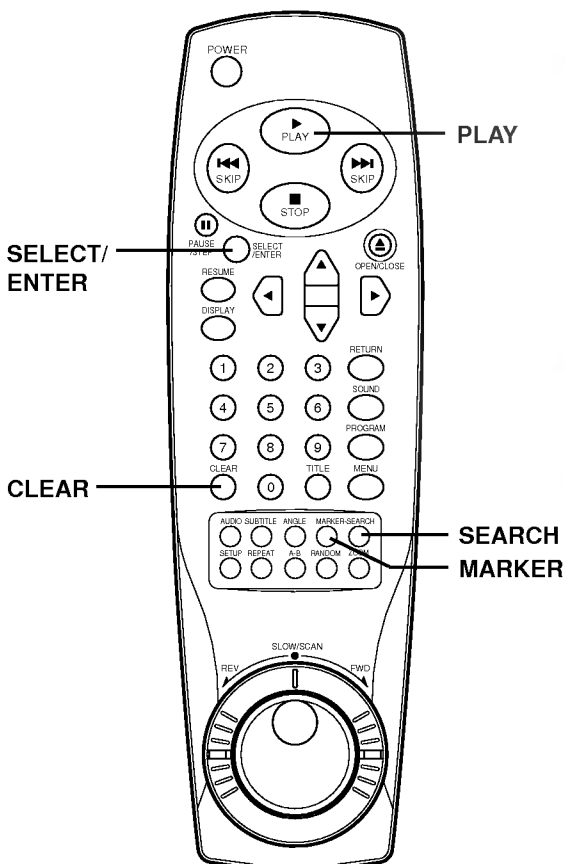
❍ These operations work only with discs for which the elapsed playing time appears in the DVD display window during playback.
❍ Some subtitles recorded around the marker may fail to appear (DVD).
❍ All the markers are cleared when the power is turned off or the disc is removed.

The Zoom feature allows you to "ZOOM-IN" and enlarge the picture on the screen to either 4 times (X4) or 16 times (X16) its normal size.

Press ZOOM during normal playback or still playback.
The DVD player magnifies the image in the center of the picture.
Each press of the ZOOM button changes the TV screen in the following sequence.

(X4)

(X16)
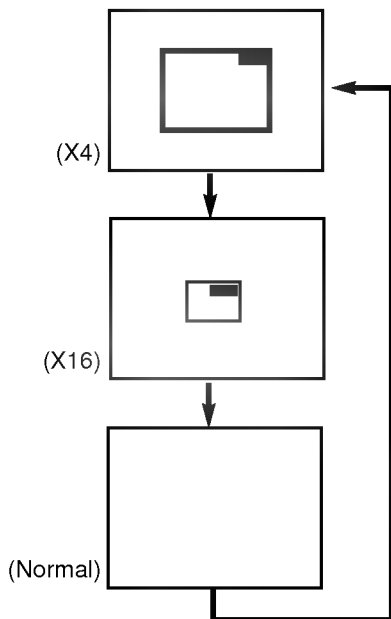
(Normal)

The magnification level will be displayed in the upper right corner of the zoom area.

If you press the ARROW buttons (▲/▼, ◄/►), the zoom point shifts.

Press SELECT/ENTER.
The selected frame is displayed in full size on the TV screen.

To resume normal playback
Press ZOOM again to cancel Zoom feature and resume normal playback or still playback.

❍ Some discs may not respond to Zoom feature.
❍ During some scenes, the buttons may not work in the right column.
❍ Zoom does not work on subtitles or menus included on DVD video discs.

Note: Random play function only works with DVD video karaoke discs and with audio CD discs. Random does not work with DVD movies.

You can playback titles, chapters within a title, or tracks in random order (Random playback).
The DVD player automatically selects the titles in a DVD video karaoke disc only and plays them back randomly.
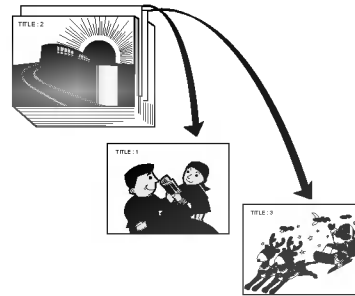
Random play (DVD)

Press RANDOM during stop.
The DVD player starts random playback.

If you press the RANDOM button during normal playback, the DVD player will randomly select another title and begin random playback immediately.

To resume normal playback
Press RANDOM during random playback.
The RANDOM indicator in the DVD display window disappears.

Random play (CD)
The player plays the tracks in the disc in random order.

Press RANDOM during stop.
The random playback screen appears on the TV screen.

If you press the RANDOM button during normal playback, the DVD player immediately selects another track and begins random playback.

To resume normal playback
Press RANDOM during random playback.
The RANDOM indicator in the DVD display window disappears.

❍ Random playback may not be possible on certain discs.
❍ If you press the SKIP ►►I button during random playback, the DVD player goes to another track randomly and starts playback.

Note: Program play function is possible only with audio CDs. It does not work with DVD movie discs.

The player plays the tracks in the disc in the order you specify.

■ **Press PROGRAM during playback or stop mode.**

The program playback screen appears on the TV screen.
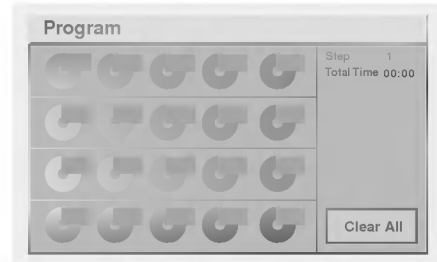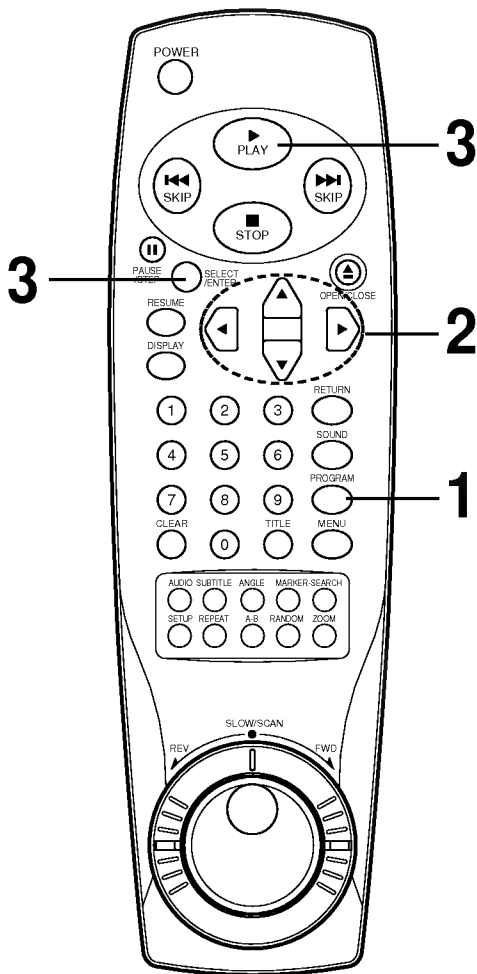
• To exit the screen, press PLAY, PROGRAM or SELECT/ENTER.

■ **Press ▲/▼/◄/► and press the numeric button(s), to select the desired track number.**
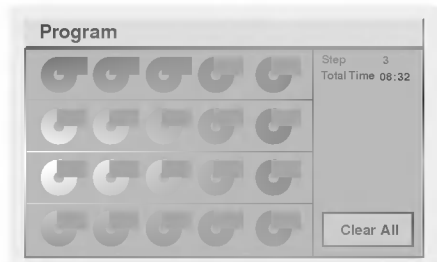
• Repeat step 2 to select another track.
• Up to 20 tracks can be programmed.

■ **Press PLAY or SELECT/ENTER to exit the screen.**
The selected track is stored in the memory and play now begins in the programmed sequence.
● If you press PROGRAM to exit the screen, the selected tracks are not memorized.

After playback
Play is stopped.

Clearing the program
● **To clear the program one by one**

Press ▲/▼/◄/► to select the unwanted No. and then press CLEAR.
● **To clear all the programs**

Press ▲/▼/◄/► to select the "Clear All" and press SELECT/ENTER. Press PLAY or SELECT/ENTER to exit the screen. If you press PROGRAM to exit the screen, the programs are not cleared. (The programs are also cleared when the power is turned off or the disc is removed.)

Once the initial settings have been completed, the player can always be operated under the same conditions (especially with DVD discs). The settings will be retained in the memory until they are changed, even if the power is switched off.

Common procedures of initial settings

Press SETUP in the stop mode.
The SETUP menu is displayed.

	Original	Original
⊕ Disc Subtitle	Original	German
Disc Menu	Original	English
🔒 Rating	8	French
Password	- - - -	Spanish
📺 TV Aspect	16:9 Wide	Italy
Menu Language	English	Other - - - -
Digital Audio Output	DOLBY DIGITAL /PCM	
5.1 Speaker Setup	▶	

Return │ Resume │ Play

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

• Disc Audio
• Disc Subtitle   (see page 32)
• Disc Menu
• Rating (see page 33)
• Password (see page 34)
• TV Aspect (see page 35)
• Menu Language (see page 36)
• Digital Audio Output (see page 37)
• Speaker (see page 38)

Press ▶ and then ▲/▼ to select the desired setting and press SELECT/ENTER.
• Some items require additional steps. (See the respective page.)

When the alternate setting is selected the screen returns to the Initial Settings display.

To exit SETUP menu
Press SETUP, RETURN or RESUME. (The previous screen is displayed.)

To clear the initial settings screen
Press ▲/▼/◄/► to select RESUME and press SELECT/ENTER. (Pressing SETUP, RETURN or RESUME also clears the initial settings screen.)
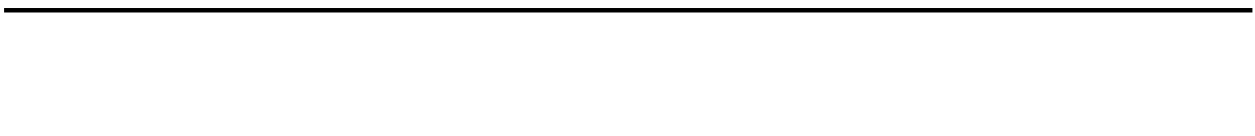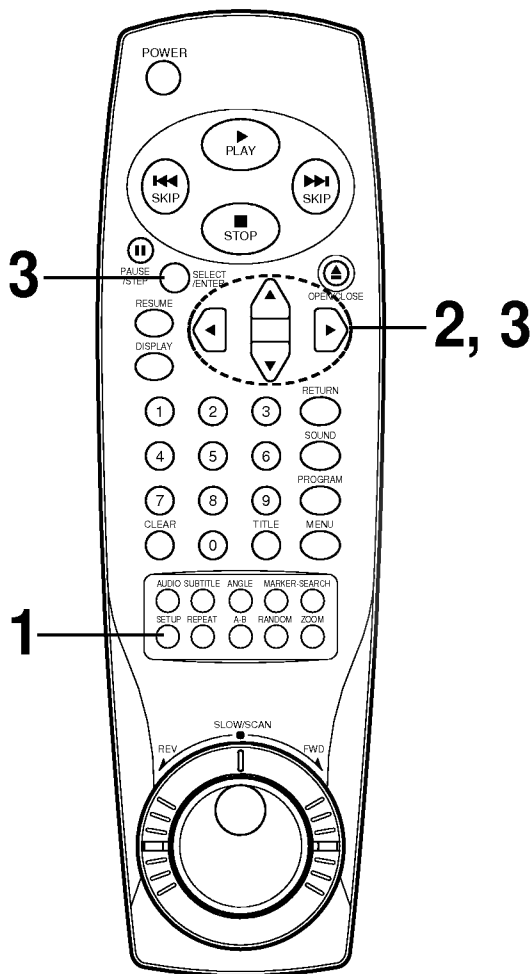
This is to select the audio soundtrack language, subtitle language and the language used in title menus or DVD menus which will always be used for every disc to be played back.

When you play back a DVD video disc, the DVD player automatically displays the pre-selected subtitle language if it is included on the disc.

At the setup screen

Press ▲/▼ to select "Disc Audio" and press ►.

🔘 Disc Subtitle	Original	German
Disc Menu	Original	English
🔒 Rating	8	French
Password	- - - -	Spanish
📺 TV Aspect	16:9 Wide	Italy
Menu Language	English	Other - - - -
🔊 Digital Audio Output	DOLBY DIGITAL /PCM	
5.1 Speaker Setup	►	

Return | Resume | Play

Press ▲/▼ to select the desired language and then press SELECT/ENTER.

Original : The original language of each disc will be selected.
English : The English will be Selected.
Other : Another language can be selected. You can input 4-digit language code. (Refer to the language codes on page 39. Press CLEAR if an incorrect language code is entered.)
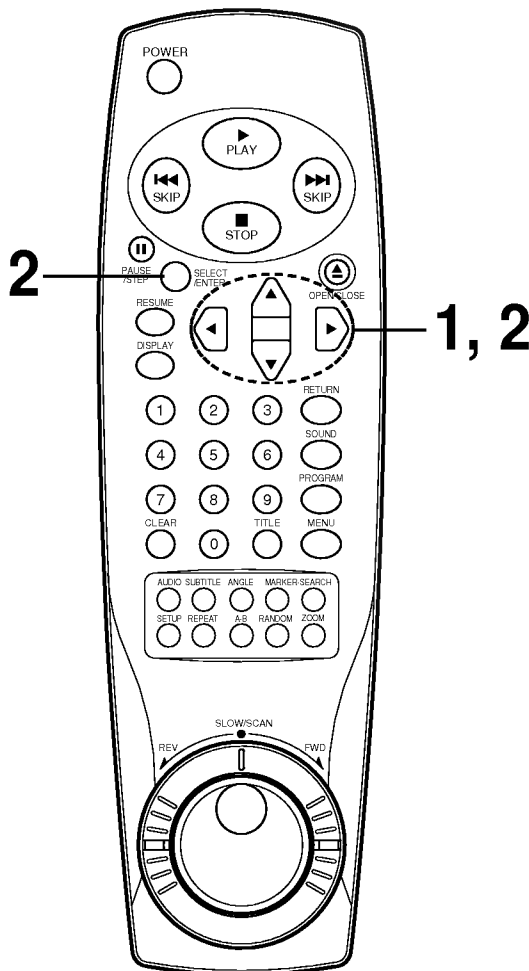
The Disc Subtitle and Disc Menus are selected by the same method.

The screen illustrated in step 1 is displayed. Press ▲/▼/◄/► to select RESUME and press SELECT/ENTER to return to the initial settings screen.

○ If the language selected is not available on the disc, the original language designated by each disc will be selected.

2

1, 2

POWER

PLAY
SKIP   SKIP
STOP
PAUSE/STEP   SELECT/ENTER   OPEN/CLOSE
RESUME
DISPLAY
RETURN
1 2 3
SOUND
4 5 6
PROGRAM
7 8 9
CLEAR TITLE MENU
0
AUDIO SUBTITLE ANGLE MARKER SEARCH
SETUP REPEAT A-B RANDOM ZOOM
SLOW/SCAN
REV   FWD

Selecting rating level and password (DVD only)

This is to prohibit the playing of specified DVDs which are unsuitable for children.
● Some DVD discs contain a restriction level which enables parents to remove scenes or prevent playback of discs by children. DVD players are equipped with a password designed to prevent children changing the level.

Selecting rating level (DVD only)

At the SETUP screen
Press ▲/▼ to select Rating and press ▶.

Disc Audio	English
Disc Subtitle	English
Disc Menu	English
	8
Password	_ _ _ _
TV Aspect	16:9 Wide
Menu Language	English
Digital Audio Output	DOLBY DIGITAL /PCM
5.1 Speaker Setup	▶

Return   Resume   Play

Press ▲/▼ to select the desired level and press SELECT/ENTER.

Disc Audio	English
Disc Subtitle	English
Disc Menu	English
	6
Password	_ _ _ _
TV Aspect	16:9 Wide
Menu Language	English
Digital Audio Output	DOLBY DIGITAL /PCM
5.1 Speaker Setup	▶

8 Blocked
7 Blocked
6
5
4
3
2
1

Return   Resume   Play
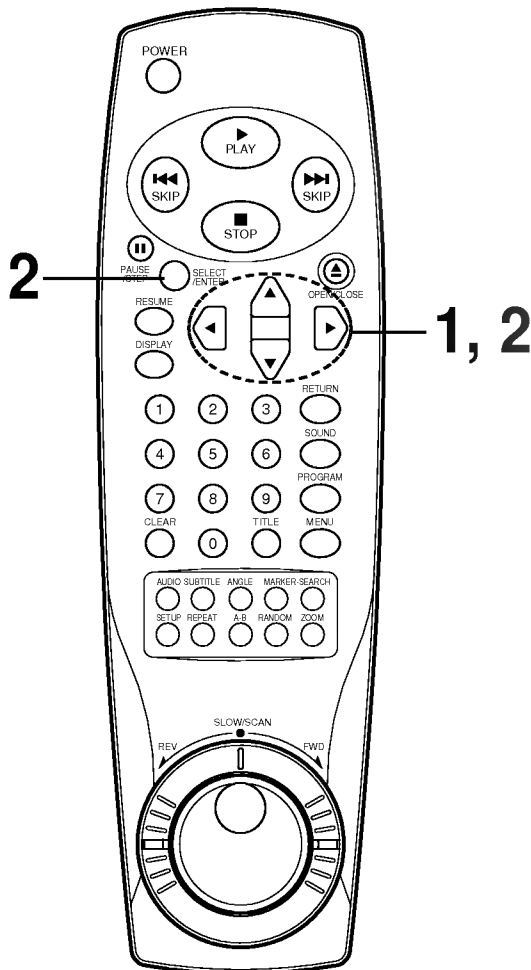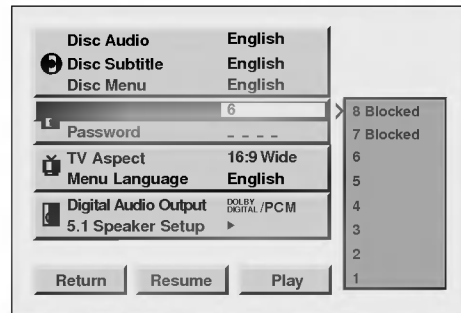
You cannot play DVD video discs rated higher than the level you selected unless you cancel the parental lock function. For example, when you select level 7, discs rated higher than level 7 are blocked and cannot be played.

If you change the level and enter a password, playback of all DVDs with ratings higher than your selection will be blocked, unless the correct password is entered again. For example: if you change the level to "5", the DVD player will not play discs with ratings of "6", "7" or "8" unless the correct password is entered on the remote control.
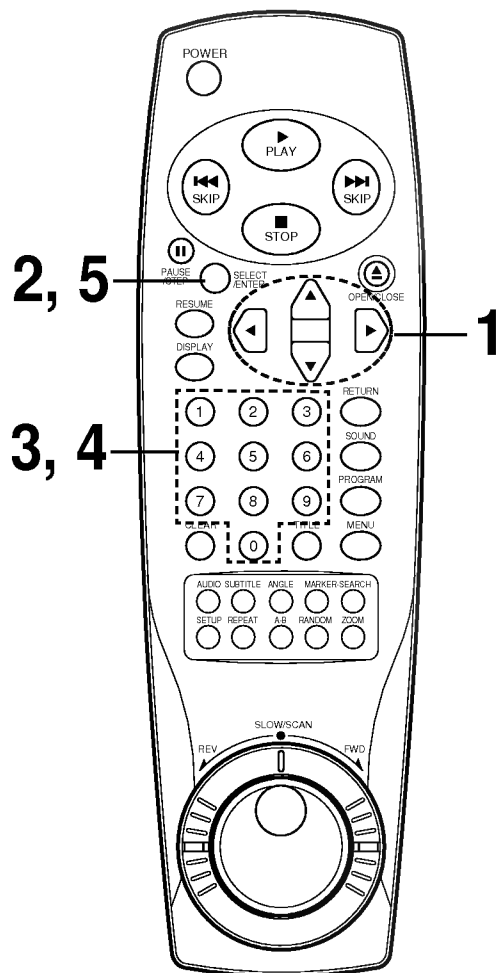
Setting your password (DVD only)
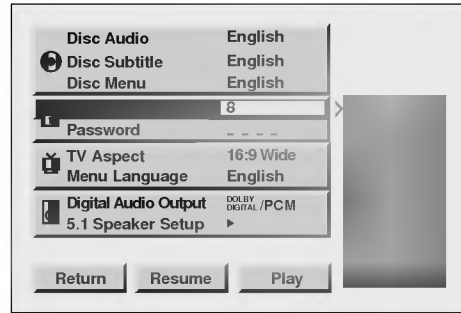If you change the rating level to "7" or lower, you must enter a 4-digit "password" to prevent playback of discs with higher ratings.

At the SETUP screen
Press ▼ to select password.
Press ► and then ▲/▼ to select the "Change" item.

Press SELECT/ENTER.

Input a 4-digit password.
Example : 1234
Do not forget your password.

Input the 4-digit password again to verify.

Press SELECT/ENTER.

Setting is finished and the SETUP screen is displayed.

● When the selected password is already set, "Set" appears. When it is not set, "- - - -" appears
● The rating is locked. Any discs whose rating is higher than the setting cannot be played back unless the correct password is entered.

To change the settings
To change the rating level/password, enter your 4-digit password and follow the steps on page 33-34 again.

To clear your 4-digit password
If you forget your password, to clear the current password, follow the procedure below.

At the SETUP screen
1 Press ▼ to select "Password" item.

2 Enter 6-digit number "210499" and then press SELECT/ENTER.
The 4-digit password is cleared.

3 Enter a new password
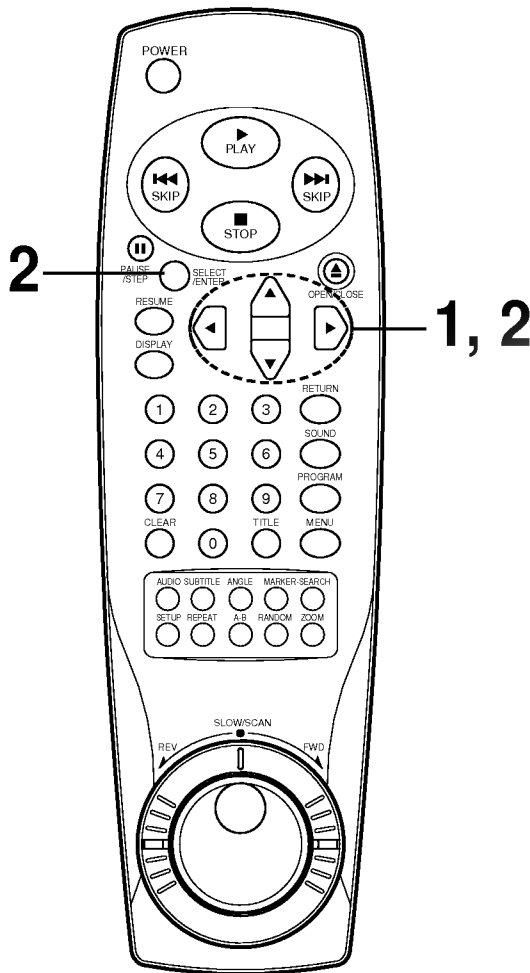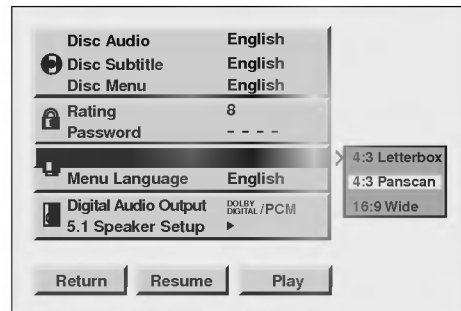Refer to "Setting your password" section on the right.

Selecting TV Aspect

Select the appropriate screen type according to your TV set; conventional size screen (4:3) or wide-screen (16:9).

4:3 Letterbox

4:3 Panscan

16:9 Wide

At the SETUP screen.

Press ▲/▼ to select TV Aspect and press ▶.

Disc Audio	English
Disc Subtitle	English
Disc Menu	English
Rating	8
Password	- - - -
	16:9 Wide
Menu Language	English
Digital Audio Output	DOLBY DIGITAL /PCM
5.1 Speaker Setup	▶

4:3 Letterbox
4:3 Panscan
16:9 Wide

Return │ Resume │ Play

press ▲/▼ to select the desired Aspect and press SELECT/ENTER.

Disc Audio	English
Disc Subtitle	English
Disc Menu	English
Rating	8
Password	- - - -
Menu Language	English
Digital Audio Output	DOLBY DIGITAL /PCM
5.1 Speaker Setup	▶

4:3 Letterbox
4:3 Panscan
16:9 Wide

Return │ Resume │ Play
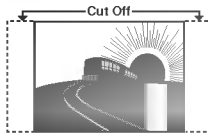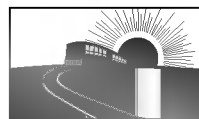
4:3 Letterbox : The video material not formatted in the Pan & Scan style is played back in the letterbox style (black bands appear at top and bottom of screen).

4:3 Panscan : Select when a conventional TV set is connected. The video material formatted in the Pan & Scan style is played back in that style (the left and right edges are cut off).

16:9 Wide : Select when a wide-screen TV set is connected. Played in "FULL" size. (Setting the wide-screen TV to "FULL" mode is also necessary.)

* Each screen shows an example of when the video material for a wide-screen is played. (This setting does not affect the video material for conventional size.)

Setting is finished and the SETUP screen is displayed.

At the SETUP screen.

Press ▲/▼ to select Menu Language and press ▶.

Disc Audio	English
Disc Subtitle	English
Disc Menu	English
Rating	8
Password	– – – –
TV Aspect	16:9 Wide
	English
Digital Audio Output	DOLBY DIGITAL /PCM
5.1 Speaker Setup	▶

> German
> English

Return | Resume | Play
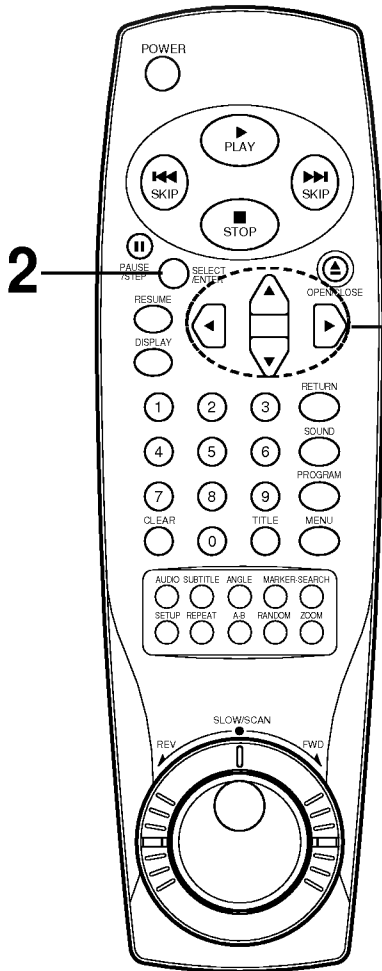
Press ▲/▼ to select the desired Menu Language and press SELECT/ENTER.

1, 2

Disc Audio	English
Disc Subtitle	English
Disc Menu	English
Rating	8
Password	– – – –
TV Aspect	16:9 Wide
Digital Audio Output	DOLBY DIGITAL /PCM
5.1 Speaker Setup	▶

> English

Return | Resume | Play

POWER

PLAY

SKIP   SKIP

STOP

2

PAUSE/STEP   SELECT/ENTER   OPEN/CLOSE

RESUME

DISPLAY

RETURN

1 2 3

SOUND

4 5 6

PROGRAM

7 8 9

CLEAR   TITLE   MENU

0

AUDIO SUBTITLE ANGLE MARKER-SEARCH

SETUP REPEAT A-B RANDOM ZOOM

SLOW/SCAN
REV   FWD

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

At the SETUP screen.
Press ▲/▼ to select Digital Audio Output and press ►.

Disc Audio	English
Disc Subtitle	English
Disc Menu	English
Rating	8
Password	- - - -
TV Aspect	16:9 Wide
Menu Language	English
	DOLBY DIGITAL /PCM
5.1 Speaker Setup ►	

DOLBY DIGITAL /PCM
Stream/PCM
PCM

Return | Resume | Play

Press ▲/▼ to select the desired output and press SELECT/ENTER.

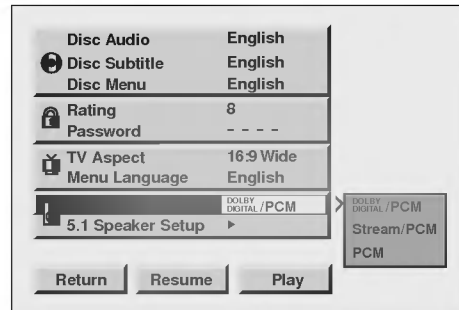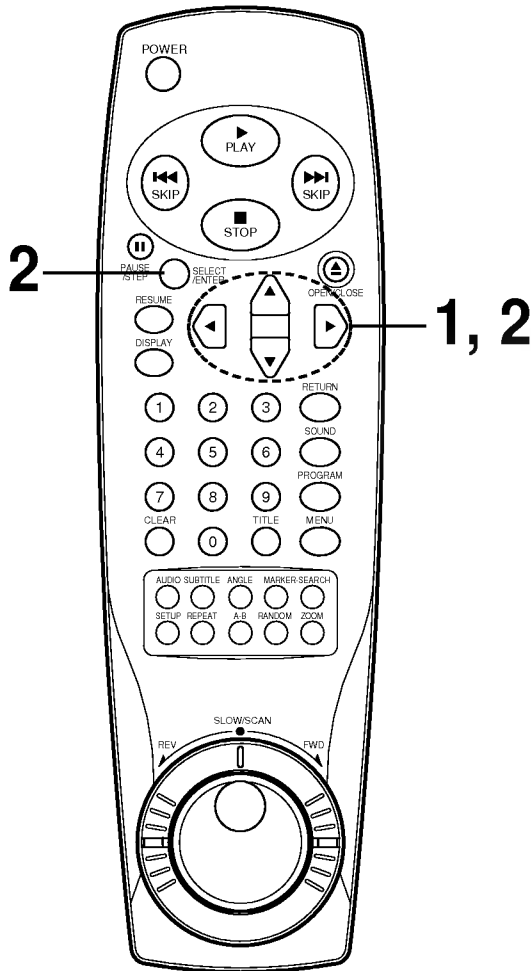|	
Disc Audio	English
Disc Subtitle	English
Disc Menu	English
Rating	8
Password	- - - -
TV Aspect	16:9 Wide
Menu Language	English
	DOLBY DIGITAL /PCM
5.1 Speaker Setup ►	

Return | Resume | Play

DOLBY DIGITAL/PCM: Select "DOLBY DIGITAL/PCM" if an active digital output is supplied to Dolby Digital decoder, (or an amplifier or other equipment with Dolby Digital decoder).

Stream/PCM: Select "Stream/PCM" if an active digital output is supplied to an amplifier or other equipment with DTS decoder, Dolby Digital decoder and MPEG decoder.

PCM: Select "PCM" if an active digital output is supplied to an amplifier or other equipment with linear PCM only (or MD recorder or DAT deck).

❍ When you are not using the player's digital audio output, don't select any of the options.
❍ If an active digital audio output signal is supplied to receiver or other equipment without a corresponding digital decoding capability, a very loud noise may be produced which could permanently damage the speakers.
❍ The DTS DVD disc sound is played back only when the DVD player is connected with amplifier with a DTS decoder.

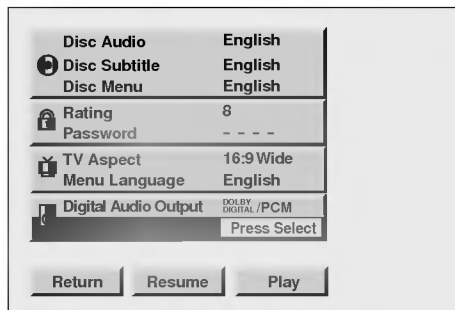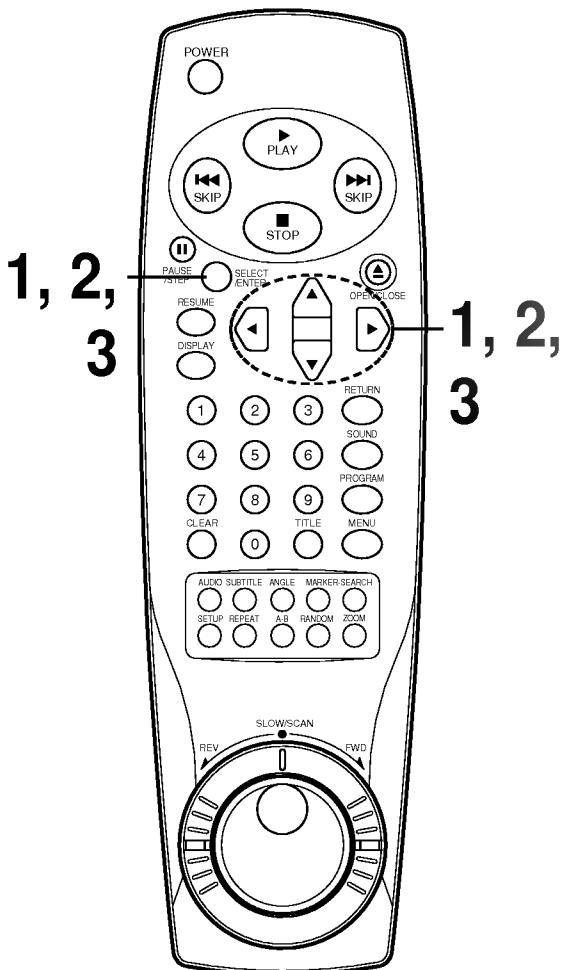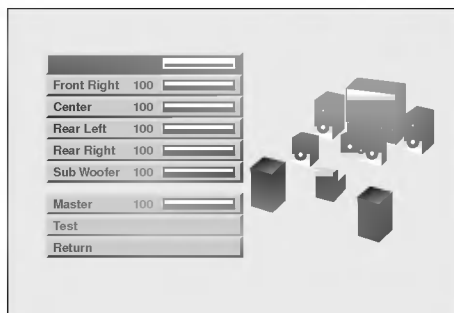| Playback Disc	OUTPUT		
	Stream/PCM	Dolby Digital/ PCM	PCM only
96 kHz Linear PCM DVD	PCM	PCM	PCM
DTS DVD	DTS bit Stream	Not Output	Not Output
Dolby Digital DVD	Dolby Digital bit Stream	Dolby Digital bit Stream	PCM
MPEG DVD	MPEG bit Stream	PCM	PCM
Audio CD	PCM	PCM	PCM
DTS Audio CD	DTS bit Stream	DTS bit Stream	DTS bit Stream

Adjusting Speaker Level

Select the speaker to adjust the audio output level of the speaker.

At the SETUP screen.

Press ▲/▼ to select 5.1 Speaker Setup and press SELECT/ENTER.

Disc Audio	English
⊕ Disc Subtitle	English
Disc Menu	English
🔒 Rating	8
Password	– – – –
📺 TV Aspect	16:9 Wide
Menu Language	English
🔲 Digital Audio Output	DOLBY DIGITAL /PCM
	Press Select

| Return | Resume | Play |

Press ▲/▼ to select the desired speaker and press ◄/► to adjust speaker level.

Front Right	100	
Center	100	
Rear Left	100	
Rear Right	100	
Sub Woofer	100	
Master	100	
Test		
Return		

Master : Press ◄/► to adjust all speaker's levels. You can adjust the volume of all the speakers at one time.

Test : Press SELECT/ENTER to hear the test tone of speakers adjusted. You can hear the test tone from each speaker in sequence. (The test tone does not output from the subwoofer.)

Press ▲/▼ to cancel the test tone.
If you want to the hear tone from the Front speaker during the test, press SELECT/ENTER.

Return : Press SELECT/ENTER to return to the previous menu screen.

To return to the previous menu, press ▲/▼ to select Return and then press SELECT/ENTER.

○ Do not place the center or rear speakers farther away from the listening position than the front speakers.

Enter the appropriate code number for the initial settings "Audio", "Subtitle" and/or "Menu" (See page 32).

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

This DVD player can play back the following discs.

	Disc mark	Contents	Disc size	Maximum playback time
DVD video discs	DVD VIDEO	Audio+Video (moving pictures)	12 cm	Approx. 4 hours (single sided disc)
				Approx. 8 hours (double sided disc)
			8 cm	Approx. 80 minutes (single sided disc)
				Approx. 160 minutes (double sided disc)
Audio CDs	COMPACT disc DIGITAL AUDIO	Audio	12 cm	74 minutes
			8 cm	20 minutes

You cannot playback discs other than those listed above. (Video CD, CD-ROM, CD-Extra, CD-G, photo CD, and CD-i discs can not be played on this DVD player.)
This DVD player uses the PAL color system.

"Certain audio features of this product manufactured under a license from Desper Products, Inc., Spatializer® 3-D Stereo, Spatializer N-2-2 (TM) and the circle-in-square device are trademarks owned by Desper Products, Inc,."

Region Management Information: This DVD/CD Player is designed and manufactured to respond to the Region Management Information that is recorded on a DVD disc. If the Region number described on the DVD disc does not correspond to the Region number of this DVD/CD player, this DVD/CD player cannot play that disc.

The Region number of this DVD/CD player is 2.

You may not be able to play back some DVD video discs on this player if they were purchased from outside your geographic area or made for business purposes.
When you try to play back an unauthorized disc, "**Check Regional Code**" appears on the TV screen.

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.

Symptoms and Correction

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

Symptom	Cause	Correction
No power.	• The power cord is disconnected.	• Plug the power cord into the wall outlet securely.
The power is on, but the DVD player does not work.	• No disc is inserted.	• Insert a disc. (Check that the DVD or, audio CD indicator in the DVD display is lit.)
No picture.	• The TV is not set to receive DVD signal output.	• Select the appropriate video input mode on the TV so the picture from the DVD player appears on the TV screen.
	• The video cable is not connected securely.	• Connect the video cable into the jacks securely.
	• The connected TV power is turned off.	• Turn on the TV.
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.
	• The audio cables are not connected securely.	• Connect the audio cable into the jacks securely.
	• The power of the equipment connected with the audio cable is turned off.	• Turn on the equipment connected with the audio cable.
	• The Digital Audio Output is set to the wrong position.	• Set the Digital Audio Output to the correct position, then turn on the DVD player again by pressing the POWER button.
The playback picture is poor.	• The disc is dirty.	• Clean the disc.
The DVD player does not start playback.	• No disc is inserted.	• Insert a disc.(Check that the DVD, or audio CD indicator in the DVD display is lit.)
	• An unplayable disc is inserted.	• Insert a playable disc. (Check the disc type, color system and Regional code.)
	• The disc is placed upside down.	• Place the disc with the playback side down.
	• The disc is not placed within the guide.	• Place the disc on the disc tray correctly inside the guide.
	• The disc is dirty.	• Clean the disc.
	• A menu is on the TV screen.	• Press the SETUP button to turn off the menu screen.
	• The Rating level is set.	• Cancel the Rating function or change the rating level.
The remote control does not work properly.	• The remote control is not pointed at the remote sensor of the DVD player.	• Point the remote control at the remote sensor of the DVD player.
	• The remote control is too far from the DVD player.	• Operate the remote control within about 23 ft (7 m).
	• There is an obstacle in the path of the remote control and the DVD player.	• Remove the obstacle.
	• The batteries in the remote control are exhausted.	• Replace the batteries with new ones.

DVD player/Outputs/Supplied Accessories

[DVD player]	Power supply	AC 200-240V, 50 Hz
	Power consumption	20 W
	Mass	7.7 lbs (3.5 kg)
	External dimensions (W X H X D)	17" X 3.2" X 11.8" (430 x 80 x 298 mm)
	Signal system	PAL 625/50
	Laser	Semiconductor laser, wavelength 650 nm
	Frequency range (digital audio)	2 Hz to 44 kHz
	Signal-to-noise ratio (digital audio)	More than 105 dB (EIAJ)
	Audio dynamic range (digital audio)	More than 95 dB (EIAJ)
	Harmonic distortion (digital audio)	0.003 %
	Wow and flutter	Below measurable level (less than + 0.001 % (W.PEAK)) (EIAJ)
	Operating conditions	Temperature: 41°F to 95°F, Operation status: Horizontal
[Outputs]	Video output	1.0 V (p-p), 75 Ω, negative sync., RCA jack x 1/SCART1
	S-video output	(Y) 1.0 V (p-p), 75 Ω, negative sync., Mini DIN 4-pin x 1 (C) 0.286 V (p-p), 75 Ω (PAL)
	Audio output (digital audio)	0.5 V (p-p), 75 Ω, RCA jack x 1
	Audio output (optical audio)	Optical connector x 1
	Audio output (analog audio)	2.0 Vrms(1 KHz, 0 dB), 330 Ω, RCA jack (L, R) x 1/SCART1
[Supplied Accessories]	● S-video cable ....1 ● Coaxial audio cable..1 ● Audio/video cable...1 ● Remote control...1 ● Batteries (AAA) 2	

✻ **Designs and specifications are subject to change without notice.**