IMPORTANT SAFEGUARDS

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE 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.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and servicing instructions in the literature accompanying the appliance.

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

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

IMPORTANT FOR LASER PRODUCTS

• **LASER** : 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 control adjustments or the performance of procedures other than those specified may result in hazardous radiation exposure.

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

• **DANGER** : Visible laser radiation when open and interlock failed or defeated.
Avoid direct exposure to beam.

• **CAUTION** : Do not open the top cover. There are no user serviceable parts inside the Unit; leave all servicing to qualified service personnel.

**CLASS 1
LASER PRODUCT**

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 to an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experience radio/TV technical for help.

CAUTION: Any changes or modification in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

• 1 •
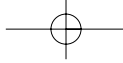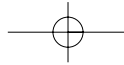
IMPORTANT SAFEGUARDS (Continued)

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.

1 READ INSTRUCTIONS

All the safety and operating instructions should be read before the unit is operated.

2 RETAIN INSTRUCTIONS

The safety and operating instructions should be retained for future reference.

3 HEED WARNINGS

All warnings on the unit and in the operating instructions should be adhered to.

4 FOLLOW INSTRUCTIONS

All operating and use instructions should be followed.

5 CLEANING

Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6 ATTACHMENTS

Do not use attachments unless recommended by the unit's manufacturer as they may cause hazards.

7 WATER AND MOISTURE

Do not use this unit near water- for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool.

8 ACCESSORIES

Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury to a child or adult as well as serious damage to the unit. Use this unit only with a cart, stand , tripod, bracket, or table recommended by the manufacturer.

PORTABLE CART WARNING
(symbol provided by RETAC)

8A

A unit and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the video product and cart combination to overturn.

9 VENTILATION

Slots and openings in the case are provided for ventilation to ensure reliable operation of the unit and to protect it from overheating. These openings must not be blocked or covered. These openings must not be blocked by placing the unit on a bed, sofa, rug, or other similar surface. This unit should never be placed near or over a radiator or heat radiator. This unit should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

10 POWER SOURCES

This unit should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your video dealer or local power company. For units intended to operate from battery power, or other sources, refer to the operating instructions.

11 GROUNDING OR POLARIZATION

This unit is equipped with a polarized alternating -current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way.

• 2 •
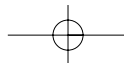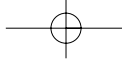
IMPORTANT SAFEGUARDS (Continued)

This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your obsolete outlet.To preventelectric shock, do not use this polarized plug with an extension cord, receptacle, or other outlet unless the blades can be fully inserted without blade exposure. If you need an extension cord, use a polarized cord.

12 POWER-CORD PROTECTION

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.

13 LIGHTNING

For added protection for this unit during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit due to lightning and power line surges.

14 DISC TRAY

Keep your fingers well clear of the disc as it is closing. It may cause serious personal injury.

15 OVERLOADING

Do not overload wall outlets of extension cords as this can result in a risk of fire or electric shock.

16 OBJECT AND LIQUID ENTRY

Never push objects of any kind into this unit 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 unit.

17 BURDEN

Do not place a heavy object on or step on the product. The object may fall, causing serious personal injury and serious damage to the product.

18 DISC

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

19 SERVICING

Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

20 DAMAGE REQUIRING SERVICE

Unplug this unit from the wall outlet and refer servicing to qualified service personnel under the following conditions.

A. When the power-supply cord or plug is damaged.

B. If liquid has been spilled, or objects have fallen into the unit.

C. If the unit has been exposed to rain or water.

D. If the unit does not operate normally by following the operating instructions.   Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.

E. If the video product has been dropped or the cabinet has been damaged.

F. When the unit exhibits a distinct change in performance-this indicates a need for service.

21 REPLACEMENT PARTS

When replacement parts are required, have the service technician verify that the replacements he uses have the same safety characteristics as the original parts. Use of replacements specified by the unit manufacturer can prevent fire, electric shock, or other hazards.

• 3 •
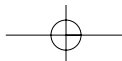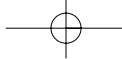
IMPORTANT SAFEGUARDS (Continued)
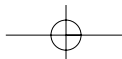
22 SAFETY CHECK

Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks recommended by the manufacturer to determine that the unit is in safe operating condition.
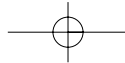
23 WALL OR CEILING MOUNTING

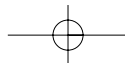The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

24 HEAT

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

• 4 •

TABLE OF CONTENTS

FEATURES

❏ **OUTSTANDING SOUND QUALITY**

Dolby Digital [DOLBY DIGITAL] system developed by Dolby Laboratories and DTS [dts] developed by DTS Inc., features high quality surround sound, can be played in DVD or CD disc at home, to reproduce high quality sound effects.

❏ **HIGH DEFINITION**

The unit adopts MPEG2 coding format and brings the horizontal resolution over 500 lines.

❏ **UNIQUE FUNCTIONS**

Multi-angle and multi-language bring unique trick functions.

Parent lock makes it easy to control the content of discs.

❏ **SCREEN**

Ordinary screen and wide screen (16:9) are available.

❏ **COMPATIBILITY**

The unit can play DVDs, and is compatible with CDs.

❏ **ZOOM**

It can enlarge pictures 1.5 times, twice or four times their size.

❏ **9-PICTURE DIGEST (VCD)**

It can look through the content of discs and select to play.

❏ **MULTI-FUNCTIONS**

Fast forward, fast reverse, slow play, frame play , repeat play and program play.

❏ **TIME SEARCH**

It can search a specific part on a disc, especially good for watching fiction movies.

❏ **RESUME PLAY**

It can memorize the position where the disc is stopped and resume playback.

❏ **CONTENT DISPLAY**

It adopts (a coloured) fluorescent display and English/French/Spanish OSD, making the disc content clearer.

❏ **VIDEO OUTPUT**

Standard video, S-video signal output mode and component output easy system change.

❏ **AUDIO OUTPUT**

Analog audio output, coaxial and optical digital audio output, can be connected with the appropriate amplifier to enjoy high quality sound effects.

❏ **5.1 CHANNEL ANALOGUE AUIO OUTPUT**

Six phono sockets for analogues 5.1 channel audio output in order to connect to an amplifier with analogue 5.1 channel input terminal. They are FRONT left, FRONT right, SURROUND left, SURROUND right, SUBWOOFER, CENTER respectively.
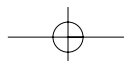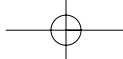
❏ **MIC**

Used to make connection with the MIC. Please insert the MIC jack into this socket. The downmix mode is selected analog audio out whenever the MIC are plugged in.

❏ **MIC LEVEL**

Used to adjust the MIC volume.

• 6 •

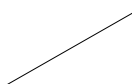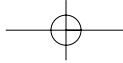# ABOUT MANUAL

PRINCIPLES FOR WRITING

- This manual mainly introduces how to use buttons on the remote control.
- You may operate the unit if the buttons on the unit have the same or similar names as or to those on the remote control.
- The marks shown in the chart on the right are used in the manual.

MARK	INDICATION
DVD	functions of DVD
SVCD	functions of super-VCD
VCD	functions of VCD
CD	functions of CD

PLAYABLE DISCS

| TYPE	MARK	CONTENT	SIZE	PLAYING TIME
DVD	DVD VIDEO	audio+video (motion pictures)	12cm	about 2hrs (single-side disc)
				about 8hrs (double-side disc)
			8cm	about 80mins (single-side disc)
				about 160mins (double-side disc)
Super-VCD		audio+video (motion pictures)	12cm	about 45mins
VCD	COMPACT disc DIGITAL VIDEO	audio+video (motion pictures)	12cm	about 74mins
			8cm	about 20mins
CD	COMPACT disc DIGITAL AUDIO	audio	12cm	about 74mins
			8cm	about 20mins
MP3		audio	12cm	about 160mins
CD-R	COMPACT disc Recordable	audio	12cm	about 600mins
CD-RW		audio	12cm	about 600mins

• 7 •
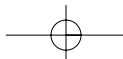
TERMS FOR DISCS

TITLE

The images or music of a DVD are divided into some units, among which title is the biggest one.

When playing a DVD, the movie is the title.

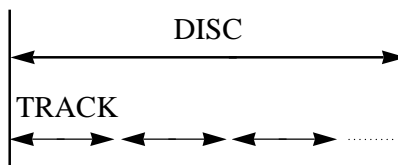When playing a CD, the combined tracks make up the title.
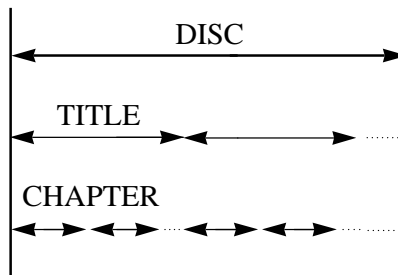
CHAPTER

It is smaller than title among the units of a DVD. A title is made up of several chapters , and each chapter has a number for search. But some discs may not have numbered chapters.

TRACK

In a CD, each track has a number to enable search functions.

STRUCTURE OF DVD

DISC

TITLE

CHAPTER

STRUCTURE OF CD

DISC

TRACK

REGION MANAGEMENT INFORMATION

This unit is designed and manufactured to respond to the Region Management information that is recorded on a DVD disc. The region number of this player is "4". If the region number described on the DVD discs does not correspond to the Region number of this player, the player will not play this disc. This player will play DVD discs made for "ALL" regions. Therefore, this player will play DVD discs marked with labels containing the region number "4" or "ALL".

(Region 4)   (Region ALL)

• 8 •
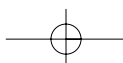
# TERMS FOR DISCS (Continued)

SCENE

The menu pictures, motion and motionless pictures of a Super-VCD, VCD or CD with PBC function can be divided into some parts, these parts are scenes. Each scene has a number for search.
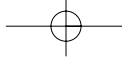
PBC (PLAYBACK CONTROL) (SUPER-VCD, VCD)

It is signals recorded in a super- VCD or VCD2.0 to control playback.

DISC TYPE	FUNCTION
VCD1.1 without PBC	enjoy music and images (motion pictures)
super-VCD and VCD with PBC	Besides the images of VCD1.1, play interactive software with the menu pictures shown on the TV screen (PBC play). If the disc has motionless pictures, high-resolution playback is also available.

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.
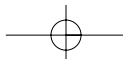
BEFORE OPERATION

SECURITY

- Before operation, check if the voltage of the unit is in line with the local voltage.
- Hold the plug to disconnect it from the mains outlet. Do not pull the power cord.
- When the plug of the unit is connected to the mains outlet , the unit will be still connected to AC even if the power is turned off.
- Disconnect the plug as soon as liquid or objects enter the unit. The unit can not be used until being checked by experts.
- Do not open the cabinet as laser rays employed by the unit may damage eyes. Any servicing should be done by qualified service personnel.

PLACEMENT

- Put the unit where ventilation is good enough to prevent overheating.
- Never put the unit in direct sunlight or near heat sources.
- Put the unit horizontally, never put any heavy object on the unit.
- To protect the pickup, do not put the unit where there is dust. If there is dust on the pickup, use a cleaning disc to clean it. Paying particular attention to the operating instructions of the cleaning disc.

CONDENSATION

Moisture will appear on the pickup lens in the following cases:
- The unit is suddenly moved from a cold place to a warm place.
- The unit is put in a room with a heater, or in cold air from an air-conditioner.
- Using the unit in a humid place. In these cases, the unit can not work. Unload the disc and leave the unit on for about one hour to evaporate the moisture.

CLEANING

- Use a soft cloth with a little neutral detergent to wipe the cabinet, panel and controls. Never use abrasive paper, polishing powder, solvent like alcohol or gasoline.

PRECAUTIONS FOR DISC

HANDLING DISC

- To keep the disc clean, do not touch the playsides of the disc.
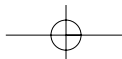- Do not attach paper or tape to the disc.
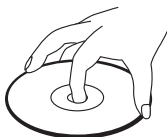
- Keep the disc away from direct sunlight or heat sources.
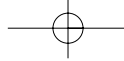- Store the disc in a disc case after playback.

CLEANING DISC

- Before playback, wipe the disc outwards from the centre with clean cloth.
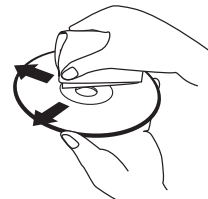
- Do not use any type of solvent such as thinner, benzine, commercially available cleaners or antistatic spray.
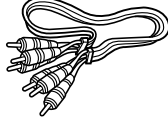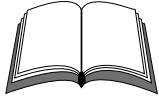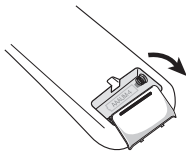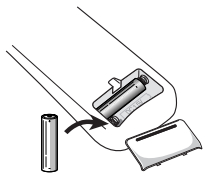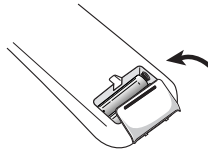
• 10 •

PREPARATIONS BEFORE OPERATION

This part introduces the work to be done before operating the unit.

CHECK ACCESSORIES

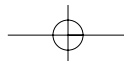Check if you have all the accessories after the carton is opened.

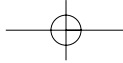|			
• Remote control	• AAA batteries	• Video/Audio cord	• Owner's manual

USE REMOTE CONTROL

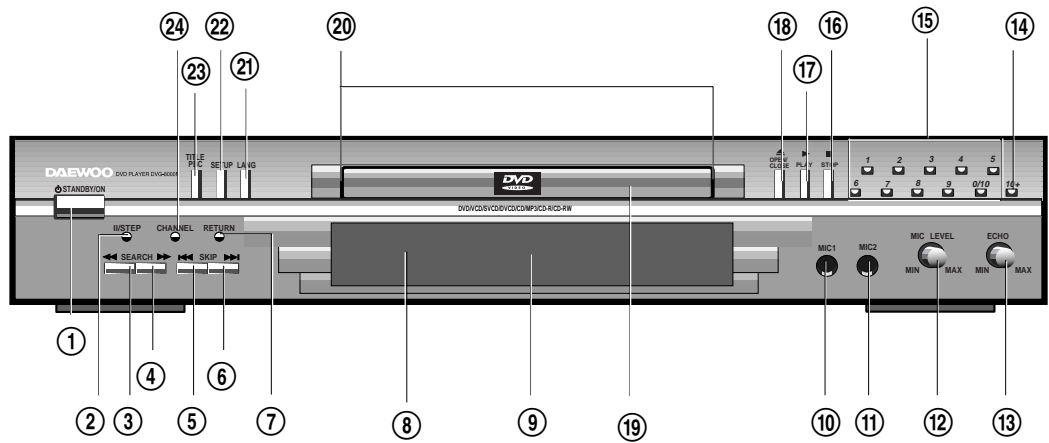| 1. Open the battery compartment.	2. Insert two AAA batteries, make sure to match"+"and "-"of the batteries to the marks in the battery compartment.	3. Close the battery compartment.	4. Point the remote control at the remote sensor. It will operate up to a range of 7 metres and an angle of 30° either side of the remote sensor on the front of the player.

Notes:

1. Batteries can generally last for about 6 months. Change the batteries if the remote control does not work, or the operating range reduces.

2. If the remote control is not used for a long time, remove the batteries to prevent battery leakage.

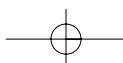3. When 🖐 appears on the TV screen by pressing the button. The disc does not have the pertinent button.

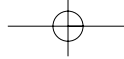# PREPARATIONS BEFORE OPERATION (Continued)

FRONT PANEL

① STANDBY/ON button
To switch the unit On or Off when connected to AC power outlet

② PAUSE/STEP button
Used to view one frame at a time during play. When you continue pressing this button, it will function continuously. Press PLAY/SELECT button for normal play.

③ FR (Fast Reverse) button
To play the disc fast reverse.

④ FF (Fast Forward) button
To play the disc fast forward.

⑤ PREV button
To skip back from the current chapter (for DVD) or track (for VCD or CD).

⑥ NEXT button
To skip forward to the next chapter (for DVD) or track (for VCD or CD. If playing a Video CD with PBC, this button works as the NEXT button to move to the next play list.

⑦ RETURN

⑧ REMOTE SENSOR
Receives a light signal from the remote controller.

⑨ DISPLAY
Displays operation status

⑩ MIC 1 JACK

⑪ MIC 2 JACK

⑫ MIC LEVEL

⑬ ECHO ADJUSTMENT

⑭ 10+ NUMBER

⑮ NUMBER (1-0/10)

⑯ STOP

⑰ PLAY(SELECT) button
To play the loaded disc. Press this button to go to the preferred item when the menu is displayed on the TV screen.

⑱ OPEN/CLOSE button
To open or close the disc tray.

⑲ DISK TRAY
To load or unload a disc. Put a disc to be played on here.

⑳ POWER INDICATOR
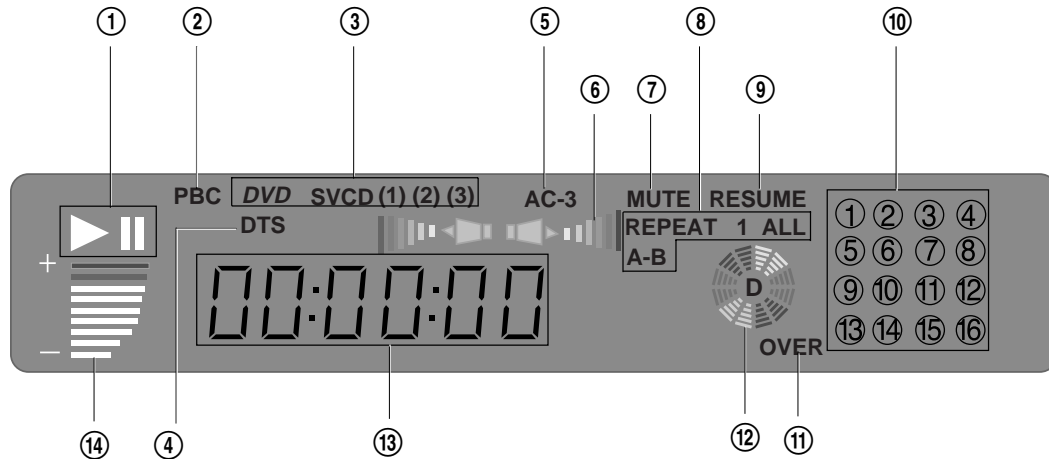
㉑ LANGUAGE

㉒ SETUP

㉓ TITLE /PBC

㉔ CHANNEL

• 12 •

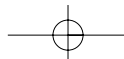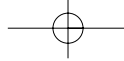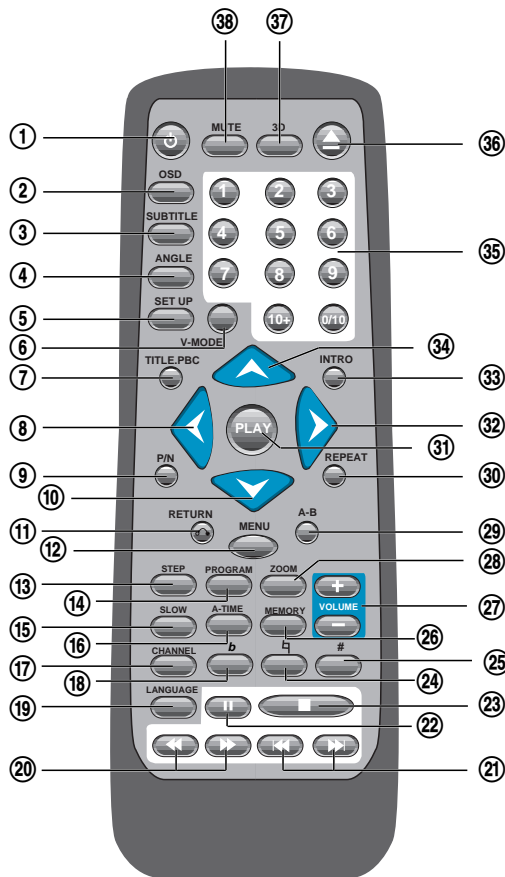# PREPARATIONS BEFORE OPERATION (Continued)

DISPLAY

① PLAY/PAUSE/STEP

Illuminates the current operation mode.

② PBC

Indicates the PBC PLAY under play SVCD or VCD2.0.

③ DVD/SVCD

Illuminates the type of a disc loaded on disc tray.

④ DTS

Indicates the audio type of the disc under play is DTS.

⑤ AC-3

Indicates the audio type of the disc under play is DOLBY DIGITAL.

⑥ AUDIO INDICATION

Illuminates the information of the AUDIO.

⑦ MUTE

Illuminates when MUTE mode.

⑧ REPEAT 1, ALL, A-B

Illuminates when the current play mode is under repeat title, chapter, track (single), disc (all), A-B respectively.

⑨ RESUME

Illuminates when RESUME mode.

⑩ TRACK CALENDAR

Illuminates the information of the TRACK.

⑪ OVER

Illuminates the over than 16 track under play CD or VCD.

⑫ ROTATION

Rotates when the disc is spinning

⑬ TITLE/CHAPTER/TRACK

Illuminates the information of the TITLE, CHAPTER or TRACK of the DVD and CD disc under play.

⑭ VOLUME LEVEL

Indicates the volume level of analog audio output.

• 13 •

PREPARATIONS BEFORE OPERATION (Continued)

NAMES AND LAYOUT OF REMOTE CONTROLS

① STANDBY/ON
② OSD
③ SUBTITLE
④ ANGLE
⑤ SETUP
⑥ V-MODE
⑦ TITLE.PBC
⑧ LEFT DIRECTION
⑨ SYSTEM(AUTO/NTSC/PAL)
  CONVERT
⑩ DOWN DIRECTION
⑪ RETURN
⑫ MENU
⑬ STEP PLAYING
⑭ PROGRAM PLAYING
⑮ SLOW PLAYING
⑯ TIME-SEARCH PLAYING
⑰ CHANNEL CONVERT
⑱ LOWER TONE
⑲ LANGUAGE SWITCH
⑳ FAST BACKWARD /
  FAST FORWARD SEARCH
㉑ ONE CHAPTER/TRACK
  PREV/NEXT
㉒ PAUSE
㉓ STOP
㉔ ATONIC TONE
㉕ RAISE TONE
㉖ MEMORY (RESUME) PLAYING
㉗ VOLUME (-/+)
㉘ ZOOM PLAYING
㉙ A-B
㉚ REPEAT PLAYING
㉛ PLAY (ENTER)
㉜ RIGHT DIRECTION
㉝ INTRO
㉞ UP DIRECTION
㉟ NUMBER (1~ 10+)
㊱ OPEN/CLOSE
㊲ 3D PLAYING
㊳ MUTE

• 14 •
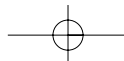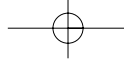
PREPARATIONS BEFORE OPERATION (Continued)

REAR PANEL
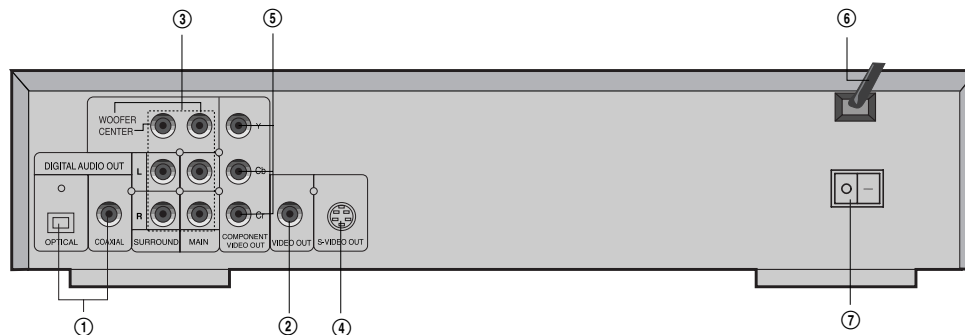
① DIGITAL AUDIO COAXIAL/OPTICAL OUT

Connects digital audio under play mode into an AV amplifier or a receiver equipped with digital audio decoder for you to enjoy the theatre-quality sound in your home.

② VIDEO OUT

Connects composite video signal to input AV or PHONO sockets of TV or monitor to achieve high fidelity colour reproduction.

③ 5.1 CHANNEL ANALOGUE OUT

In Dolby Digital and dts, total 6 channels are used. 3 channels for front, 2 channels for surround and 1 channel for subwoofer. They are front left, front right, center, subwoofer, rear left and rear right. L stands for front left, R for front right, C for center, LFE for subwoofer, LS for rear left surround and RS for rear right surround.

④ S-VIDEO OUTPUT

Connects to TV or monitor equipped with S-VIDEO input. In order to achieve a sharper and cleaner picture than that when connected via VIDEO OUT (composite video).

⑤ COMPONENT(Y/Cb/Cr)

Connects to TV or monitor equipped with Component input . In order to achieve a sharper and cleaner picture than that when connected via VIDEO OUT (composite video).

⑥ POWER SUPPLY SOCKET WIRE

Creates POWER between wall outlet and the unit.

⑦ POWER SWITCH

Turn on or off the main power.

- ON : Press " ⊟ ".
- OFF : Press " ⊡ ".

Notes:

• Remove the dust protection cap from the optical digital audio output connector and connect the cable firmly so that the configurations of both the cable and connector match.

• Do not connect to the digital audio input of an amplifier that does not have Dolby Digital and dts decoder when you set the digital out option of setup information to SPDIF/RAW.
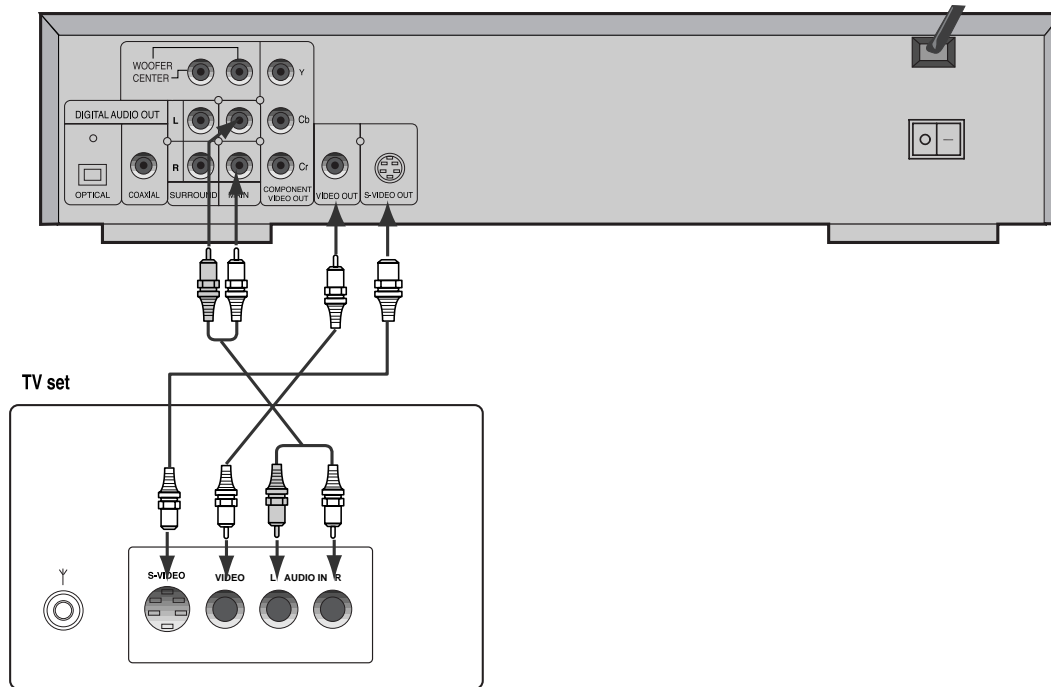
• 15 •
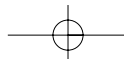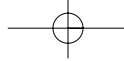
CONNECTIONS

Turn off all equipment before operation.

The unit has many kinds of output modes like A/V output, S-VIDEO output and digital signal output (OPTICAL, COAXIAL). You may select as you need.
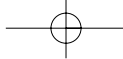
CONNECTED TO A TV

1. If the TV has S -VIDEO input, please connect the unit and the TV with S-video cord (not supplied). You do not have to utilise S-VIDEO but it will give clearer images.

2. Set the unit. You have to set the unit according to the TV connected.
 • If the system of the TV is AUTO (multi-system), press P/N and select AUTO.
 • If the system of the TV is NTSC, press P/N and select NTSC.
 • If the system of the TV is PAL, press P/N and select PAL.
 • Connect the unit to a wide-screen TV.
    Set the "TV DISPLAY" to "WIDE " in the function setting column.
 • Connect the unit to an ordinary TV.
    Set the "TV DISPLAY" to "NORMAL/ PS" (Pan scan) or "NORMAL/ LB" (Letter box) in the function setting column.
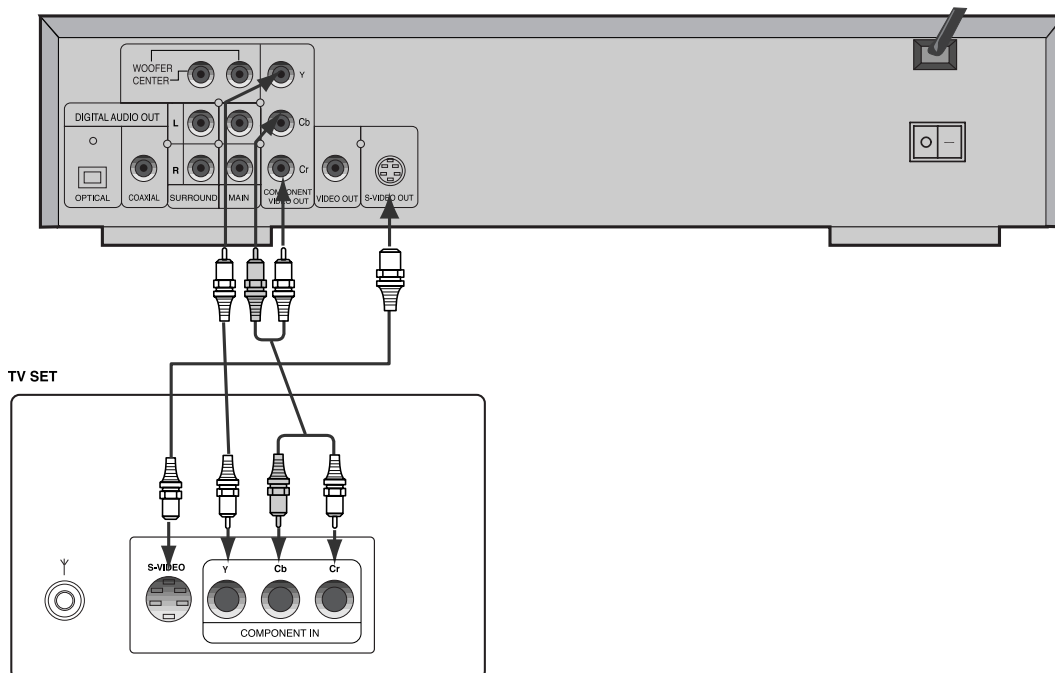
• 16 •
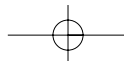
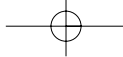# CONNECTIONS (Continued)

CONNECTED TO A TV WITH COMPONENT

- If the TV has component input, please connect the unit and the TV with component cord (not supplied). You do not have to utilise component but it will give clearer images.
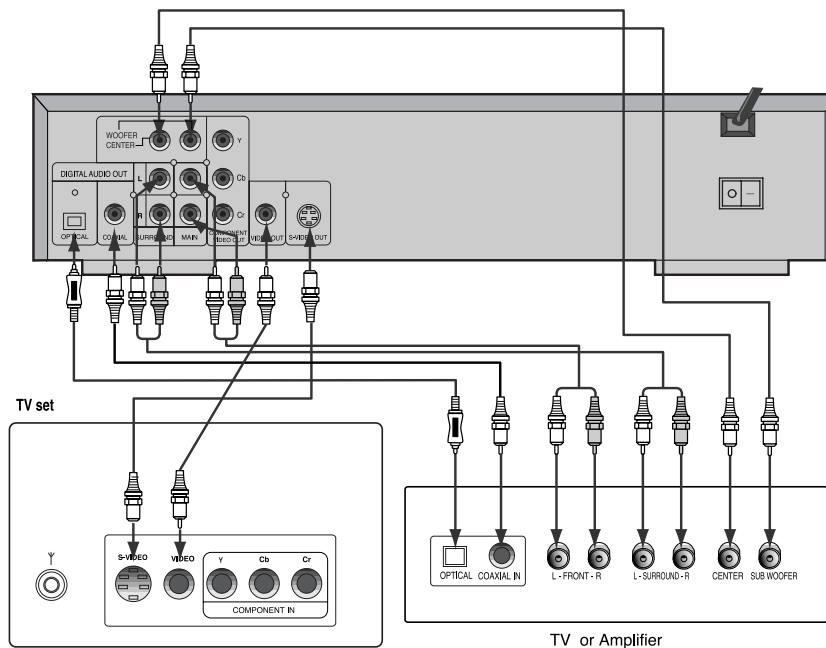
Notes:

- In case of connecting the component, press the V-MODE on the remote control to select YUV.

- When you connect the Composite or S-VIDEO and picture is not displayed, press the V-MODE on the remote control to check if DVD player position in the video mode.

• 17 •
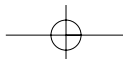
CONNECTIONS (Continued)
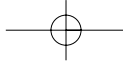
CONNECT TO AN ORDINARY AMPLIFIER

- Optical or coaxial can be selected at your option while connecting

- If you have a DTS decoder of processor, you can enjoy DVD disc or CD sound decoded by 5.1 channel DTS. ie : 5 surround speakers + 1 woofer

- Refer to page 39 for the setting.

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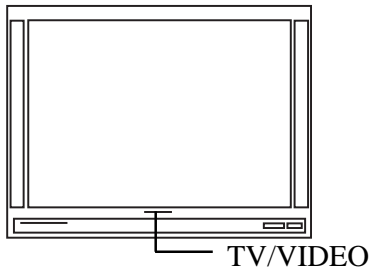"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

• 18 •
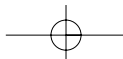
BASIC OPERATIONS

PLAY DISCS

TV/AUDIO SELECTION

Press [   ] on the TV and audio system.

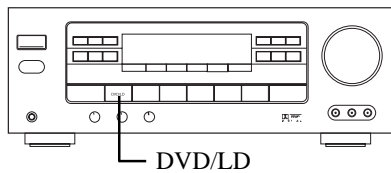1. Press "TV/VIDEO" on the TV, select VIDEO mode (TV).

TV/VIDEO

• Select S-VIDEO mode if using an 'S' Video connection.
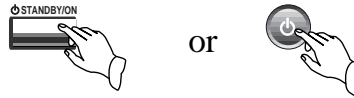
2. Select the right audio input on the amplifier.

• Each amplifier is different from another, please refer to the manual of the amplifier.

(e.g., connect the audio output of the DVD player to the DVD audio input of an amplifier.)
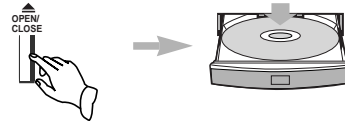
DVD/LD

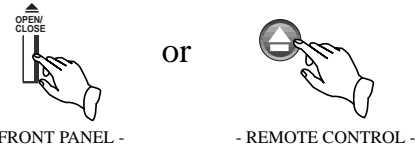Notes: This step can be cancelled if you do not connect it to the amplifier.

1. Press ⏻ to turn on the unit.

STANDBY/ON   or

2. Press ⏏ to open the disc tray and load a disc with the label side.

OPEN/
CLOSE

3. Press ⏏ again to close the disc tray. The unit begins to read the disc.

OPEN/
CLOSE   or

- FRONT PANEL -   - REMOTE CONTROL -

4. Press PLAY to play the disc.

AFTER STEP4 IS FINISHED:

• PLAY DVD
The TV screen shows the DVD menu and title menu.

• PLAY SUPER-VCD, VCD2.0
The TV screen shows the menu, the unit enters PBC status.

• PLAY CD, VCD1. 1 , MP3

Press PLAY, the unit plays the disc according to the track numbers.
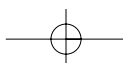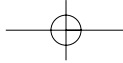
5. Stop playback.

STOP

Press ■.

• You have to press this button twice to stop the playback of a DVD.

STOP

6. Unload the disc and turn off the unit. Press ⏏ and STANDBY/ON again.

Notes: If the power is not turned on, check whether the power switch on the rear of DVD is turned on.
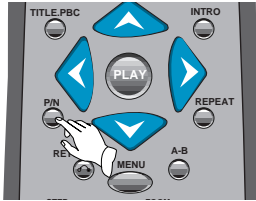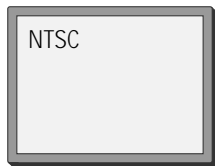
• 19 •

BASIC OPERATIONS (Continued)

SYSTEM SETTING

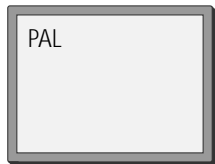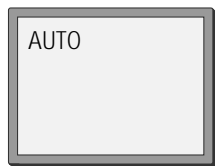According to the system of the TV to be connected ,set the system of the unit to make it match the TV.

1. If the system of the TV is NTSC
   : Press P/N, select NTSC.
   The screen shows:

   NTSC

2. If the system of the TV is PAL
   :Press P/N, select PAL.
   The screen shows:

   PAL

3. If the TV is multi-system
   : Press P/N, select AUTO.
   The screen shows:

   AUTO

STEP, PAUSE

Press STEP.

- WHEN PLAYING DVD PICTURES, VCD

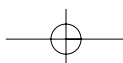 Press STEP to make the playback step. Pressing STEP again moves the picture forward frame by frame.

  STEP

- WHEN PLAYING MUSIC CD, MP3

  Press ❚❚ to make the playback pause.

  Press PLAY to resume playback.
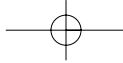
OSD

Press OSD , when the unit is operated, the TV screen shows the operation functions and information about the disc.
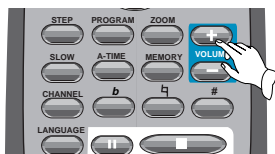
- Remove the OSD, press OSD 4 times.

BASIC OPERATIONS (Continued)

VOLUME CONTROL (EXCEPT SPDIF/RAW)

• Press VOLUME on the TV or
  amplifier to adjust the volume.
• Press VOLUME on the remote control.

1. Press + to raise the volume.

2. Press - to lower the volume.

DVD MENU PLAY

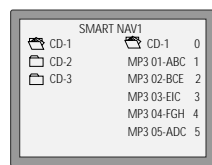Some DVDs have title menus and chapter menus.

1. Press MENU or TITLE , the screen
   shows the menu.
   Use direction buttons to select the
   desired item, then press PLAY .

2. Press TITLE once to return to the title
   menu; press it again to return to
   the current playback.
   Press MENU once to return to the root
   menu; press it again to return to the
   current playback.

> Notes:
>
> • When 🖑 appears on the TV screen by
>   pressing TITLE . The disc does not have
>   the title list in the menu.
>
> • When 🖑 appears on the TV screen
>   by pressing MENU . The disc does not
>   have the menu.

MP3 PLAY

1. When an MP3 disc is loaded, MP3
   menu screen is displayed automatically
   depending on MP3 disc's folder
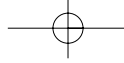   (directory) structure as shown below.

SMART NAV1		
🖴 CD-1	🖴 CD-1	0
🗀 CD-2	MP3 01-ABC	1
🗀 CD-3	MP3 02-BCE	2
	MP3 03-EIC	3
	MP3 04-FGH	4
	MP3 05-ADC	5

2. Use the direction button to select the
   folder you want to play, by pressing the
   PLAY button. This button allows, you
   to see the file lists under the folder.

3. Use the direction button and select an
   MP3 title using the PLAY button then
   play will start automatically. When you
   know the title number, enter the MP3
   title number using the numeric buttons
   on the remote control and then press
   the PLAY button.

4. Press NEXT button on the remote
   control to choose next title. Press
   PREV button for previous title. When
   you know the title number, enter MP3
   title number using the numeric buttons
   on the remote control and then press
   the PLAY button.

OTHER FUNCTIONS

When playing a MP3 disc, the unit has
functions like mute, volume control, pause,
previous/next track, repeat and channel
selection. You may operate as you do with a
CD.

• 21 •
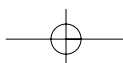
BASIC OPERATIONS (Continued)

PBC PLAY

When playing a super-VCD or VCD2.0, you can enjoy the basic interactive function.

Example: VCD2.0

1. Press ►, the screen shows the home menu.

2. Press number buttons to select.

Example: select home menu1.

3. The screen shows the sub-menu after the unit enters home menu1.

4. Press ◄◄,►► to see the previous or next page.

5. Press number buttons to select sub-menus.

6. Press RETURN to return to the sub-menu, press it again to return to the home menu.

SELECT WITH NUMBER BUTTONS (IN CASE OF CD)

Load a disc. Press number buttons to select tracks after the unit finishes reading the disc.

1. If the track number is less than 10, just press buttons 1-10.
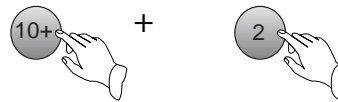
Example: press 8 to select track 8.

The screen shows:

```
SELECT 08
00:00:21
```
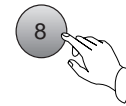
2. If the track number is over 10, press 10+ once and a button among 1-10.

Example: if you select track 12, press 10+ once and button 2.
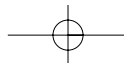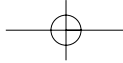
The screen shows:

```
SELECT 12
00:00:00
```

EXCHANGE DISCS
1. Press ⏏ to open the disc tray.
2. Unload the disc and load another one.
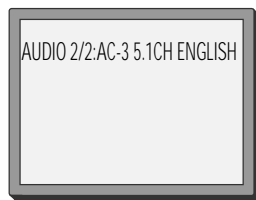3. Press ⏏ again to close the disc tray.

• 22 •

PLAY DISCS IN VARIOUS WAYS

SELECT LANGUAGE

WHEN PLAYING DVD

Press LANGUAGE , the screen shows as below.

```
AUDIO 1/2:AC-3 2CH ENGLISH
```

Press LANGUAGE again.

```
AUDIO 2/2:AC-3 5.1CH ENGLISH
```

Different discs differ in languages.

SELECT CHANNEL

WHEN PLAYING CD

CHANNEL → MONO LEFT

CHANNEL → MONO RIGHT

CHANNEL → STEREO
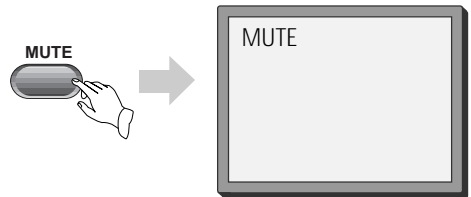
You may select one mode.

Note:

- Different discs differ in languages.

- CHANNEL works when playing a super-VCD, you may select mono channel (left or right) or stereo.

- As to a two-language fiction VCD, you may press LANGUAGE to select a needed language.

MUTE
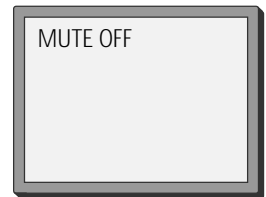
When playing a disc, this function can remove the sound.

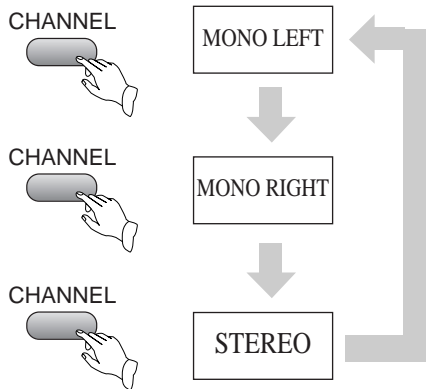1. REMOVE SOUND

   Press MUTE, the screen shows "MUTE".

   MUTE

   ```
   MUTE
   ```
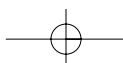
2. RESUME SOUND

   Press MUTE again.

   ```
   MUTE OFF
   ```
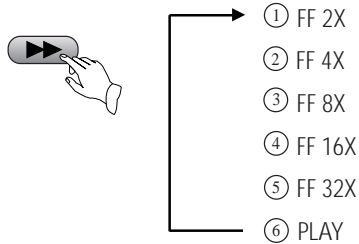
• 23 •

PLAY DISCS IN VARIOUS WAYS (Continued)

FAST PLAY

When playing a disc, you may play it in Cue or Review mode to find what you want.

WHEN PLAYING DVD

1. Press ▶▶ to play forward fast. Each time you press the button, the screen shows in order:

① FF 2X
② FF 4X
③ FF 8X
④ FF 16X
⑤ FF 32X
⑥ PLAY

2. Press ◀◀ to reverse the disc fast. Each time you press the button, the screen shows in order:
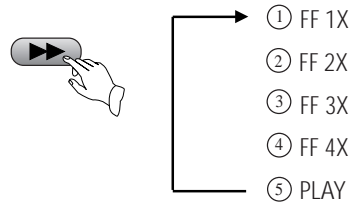

① FR 2X
② FR 4X
③ FR 8X
④ FR 16X
⑤ FR 32X
⑥ PLAY
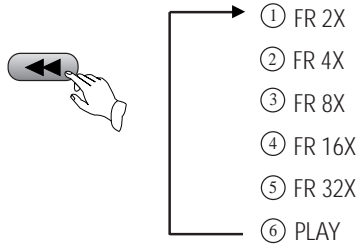
3. Press 🔘 to switch back to normal play.

> Notes: In case of fast play (DVD) mode , slow play mode or step mode, the sound is muted.

WHEN PLAYING SUPER-VCD or VCD

1. Press ▶▶ to play forward fast. Each time you press the button, the screen shows in order:

① FF 1X
② FF 2X
③ FF 3X
④ FF 4X
⑤ PLAY

2. Press ◀◀ to reverse the disc fast. Each time you press the button, the screen shows in order:
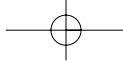

① FR 1X
② FR 2X
③ FR 3X
④ FR 4X
⑤ PLAY
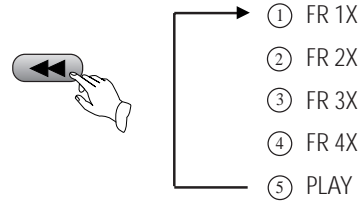
WHEN PLAYING CD, MP3

1. Press ▶▶ to play forward fast.

2. Press ◀◀ to reverse the disc.
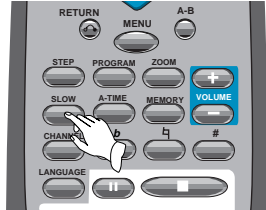
3. Release ▶▶ (or ◀◀) to play normally.
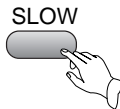
• 24 •
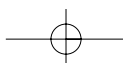
PLAY DISCS IN VARIOUS WAYS (Continued)
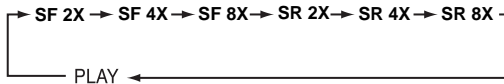
SLOW PLAY

Enjoy slow motions by the following steps.

■ WHEN PLAYING DVD

1. Press SLOW to play slowly.

SLOW

The screen shows in order:

$$\rightarrow SF\ 2X \rightarrow SF\ 4X \rightarrow SF\ 8X \rightarrow SR\ 2X \rightarrow SR\ 4X \rightarrow SR\ 8X$$
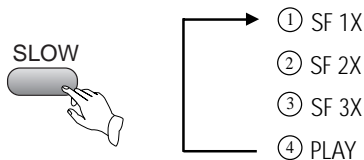$$PLAY \leftarrow$$

2. Press PLAY to play normally.

■ WHEN PLAYING SUPER-VCD or VCD

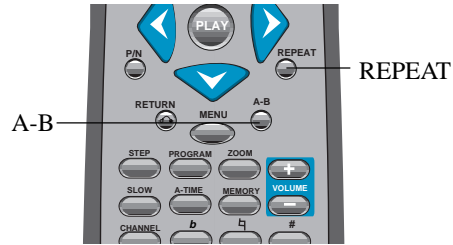1. Press SLOW to play slowly. The unit has three steps for slow play.

   The screen shows orderly.

SLOW

① SF 1X
② SF 2X
③ SF 3X
④ PLAY

2. Press PLAY to play normally.

REPEAT PLAY

This function can be used to repeatedly play a title, chapter, track, disc or some parts on a disc.

REPEAT

A-B

PLAYING A DISC REPEATEDLY

■ DVD

You may repeat a title or chapter.

1. Repeat a chapter.

   Press REPEAT, the screen shows: "CHAPTER REPEAT ON".

REPEAT   CHAPTER REPEAT ON
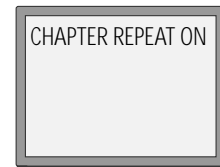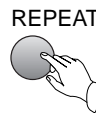
2. Repeat a title

   Press REPEAT, the screen shows: "TITLE REPEAT ON"
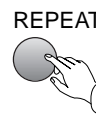
REPEAT   TITLE REPEAT ON

3. Remove "REPEAT" function.
   Press REPEAT, to remove the display on the screen.

$$\rightarrow CHAPTER\ REPEAT\ ON \rightarrow TITLE\ REPEAT\ ON \rightarrow REPEAT\ OFF$$

• 25 •

PLAY DISCS IN VARIOUS WAYS (Continued)

REPEAT SOME PARTS (EXCEPT MP3)

You may press A-B to enjoy some parts repeatedly when playing a disc.
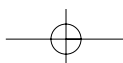
■ **Super-VCD, VCD, CD, MP3**
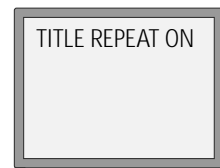
- You may repeat a track, a disc according to the following steps

- VCD 1.1 and CD can play repeatedly directly.

- Super VCD and VCD 2.0 can play repeatedly in PBC OFF mode.

- After the unit stops, press number buttons directly to select tracks.

1. Repeat one track

   Press REPEAT, the screen shows: "REP- ONE".

REPEAT

REP-ONE

2. Repeat a CD
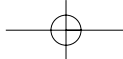
   Press REPEAT, the screen shows: "REP- ALL".

REPEAT

REP- ALL

3. Remove "REPEAT" function.
   Press REPEAT, to remove the display on the screen.

REPEAT

REPEAT OFF

▶ REP- ONE ⟶ REP- ALL ⟶ REPEAT OFF

■ **PLAY DVD, SUPER-VCD, VCD, CD**

1. Set a starting point A.

   The screen shows:

A-B

A TO B SET A
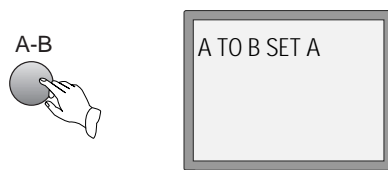
2. Set an end point B.
   The screen shows:

A-B

A TO B SET B

Afterwards, the unit plays from A to B.

3. Remove A-B repeat
   The screen shows:

A-B

A TO B CANCELLED

• 26 •
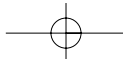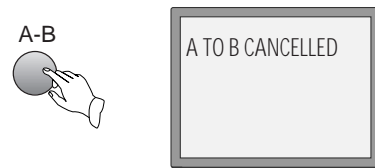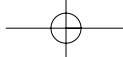
PLAY DISCS IN VARIOUS WAYS (Continued)

SELECT SUBTITLES

When playing a multi-subtitle DVD or super-VCD, you may select one subtitle to show it on the screen.

■ WHEN PLAYING DVD

1. Press SUBTITLE to select one.

   The screen shows:

   SUBTITLE 01/03:ENGLISH
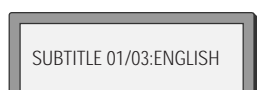
2. Remove the subtitle.

   Press SUBTITLE until the screen shows "SUBTITLE OFF".

   Notes:

   • For some discs, subtitles can not be removed.

   • Different discs differ in the languages of subtitles.

   • If the subtitles of discs can not be selected, press SUBTITLE , the screen shows forbidden mark ✋.

■ SUPER-VCD

A super-VCD has only four channels for recording, so it has four subtitles at the most.

Press SUBTITLE, the screen shows orderly:

SUBTITLE
1 SUBTITLE 01/04
2 SUBTITLE 02/04
3 SUBTITLE 03/04
4 SUBTITLE 04/04
5 SUBTITLE OFF
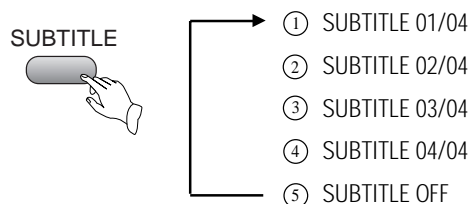
You may select a subtitle as you need. Some discs may not have "SUBTITLE OFF" function.
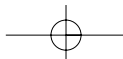
PLAY DISCS IN VARIOUS WAYS (Continued)

SELECT ANGLES

Some discs have images with different screen angles, you may select among them. For example,when you watch a running train, you may select to watch it from the front, the left window or the right window without stopping it.

Example:

A DVD has four screen angles at your option.

1. Press ANGLE to select ANGLE1.

SCREEN
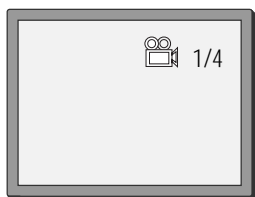
2. Press ANGLE to select other angles, the screen shows respectively:

2/4 (select ANGLE2)

3/4 (select ANGLE3)

4/4 (select ANGLE4)

3. Resume normal playback. Press ANGLE until there is no display on the screen.

3D SURROUND

This function outputs 3D effects on the stereo audio analog output 3D effects are broken down into 4 surround modes.
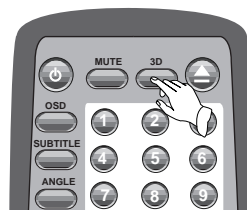
1. Press 3D button.
   3D SURROUND MODE 1 is displayed on TV screen. And analog stereo output is changed to surround mode 1.
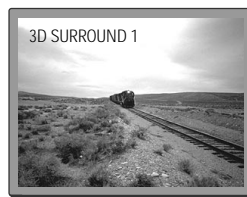
2. Press 3D button again.
   Press the 3D button continuously until the desired 3D sound mode is selected.

Notes: This 3D function is operated in case only that the AUDIO OUTPUT is set to the ANALOG or SPDIF/PCM.

• 28 •
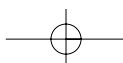
PLAY DISCS IN VARIOUS WAYS (Continued)

TIME SEARCH AND REMAINING TIME
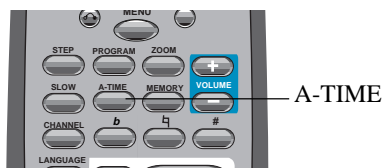
 — A-TIME

TIME SEARCH

You may directly enter a time, title or chapter number to search fast on a disc, the unit plays from the point entered.

■ PLAY DVD

1. Search a title or a chapter.

   Example: Search chapter 2 in title 2.

   • Press A-TIME, the screen shows:

   > TITLE 03/03 CHAPTER 01 /04
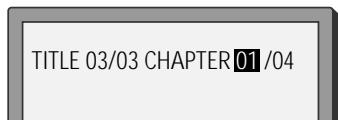
   • Press the left or right button and move the cursor to illuminate the title number. The screen shows:

   > TITLE 03/03 CHAPTER 01 /04
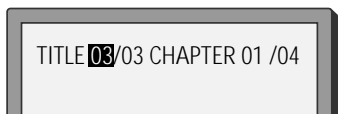
   • Press button 2 to select title 2, the screen shows:

   > TITLE 02/03 CHAPTER 01 /04
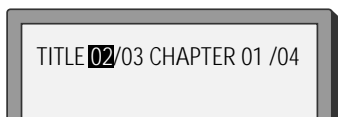
   • Repeat the steps above, select chapter 2 in title 2.

   > TITLE 02/03 CHAPTER 02 /04
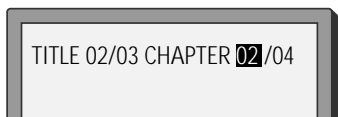
2. Time search
   • Press A-TIME until the screen shows:

   > TITLE 02/03 TIME ■:■:

   • Press number buttons to enter hour, minute and second.

Example: Enter 0, 1, 0, 2, 3, 8

After setting, the disc is played from 01:02:38.

■ PLAY SUPER-VCD, VCD, CD

You can only enter a time to search the content from that time.

Example: Play from 01:38 of track 6.

1. Press button 6 to select track 6. The screen shows:

   > SELECT: 06

2. Press A-TIME, the screen shows:

   > GO TO __:__
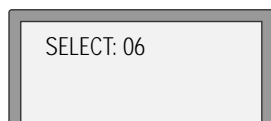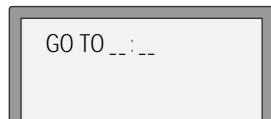
3. Press button 0, 1, 3, 8 to enter the time. The screen shows:

   > GO TO 01:38
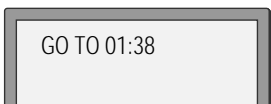
   • The unit plays from 01:38 of track 6 after setting.
   • Press 0/10 to enter 0.

• 29 •

PLAY DISCS IN VARIOUS WAYS (Continued)

REMAINING TIME

This function can be used to know the remaining time of a title, chapter or track.

■ DVD

1. Press OSD, the screen shows the remaining time of the title.

OSD

```
TITLE REMAIN
00:56:45
```

2. Press OSD , the screen shows the playing time of the chapter.
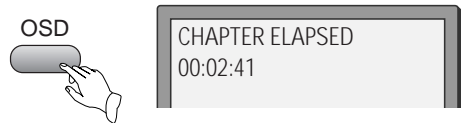
OSD

```
CHAPTER ELAPSED
00:02:41
```

3. Press OSD, the screen shows the remaining time of the chapter.

OSD

```
CHAPTER REMAIN
00:01:19
```

■ SUPER-VCD, VCD, CD

Example: Check the remaining time when playing track 2.

1. Press OSD , the screen shows the playing time of the track.

```
SINGLE ELAPSED
00:04:23
```

2. Press OSD , the screen shows the remaining time of the track.

```
SINGLE REMAIN
00:01:25
```

3. Press OSD, the screen shows the playing time of the track.

```
TOTAL ELAPSED
00:04:25
```

4. Press OSD again, the screen shows the remaining time of the disc.

```
TOTAL REMAIN
00:33:23
```
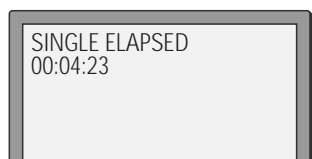
5. Press OSD once more, the screen shows:

```
OFF
```

• 30 •
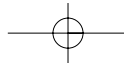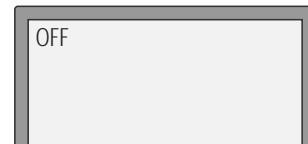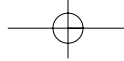
PLAY DISCS IN VARIOUS WAYS (Continued)

RESUME PLAY

The unit can memorize the last point where it stops and resume playback from there.

■ WHEN PLAYING CD

1. Press [STOP] to stop playing.
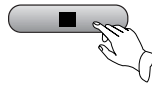
2. Press [MEMORY] to resume playback.

MEMORY
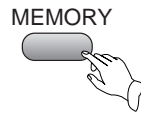
Notes:

1. This function does not work for any programmed playback.

2. This function is removed when the disc is unloaded or the unit is off.

ZOOM PLAY

This function can be used to enjoy a motion or motionless picture.
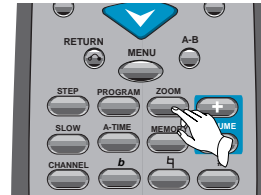
■ DVD/SUPER-VCD/VCD

1. Press [ZOOM] when playing a DVD, the screen shows:

ZOOM X1.5
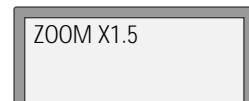
The picture is enlarged 1.5 times as big.

2. Press [ZOOM] again. the screen shows:

ZOOM X2
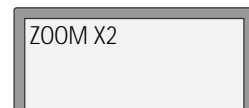
The picture is enlarged twice as big.

3. Press [ZOOM] again. the screen shows:

ZOOM X4
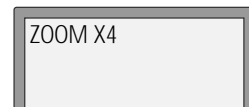
The picture is enlarged four times as big.

4. Press ◄,▲,▼,► to move the enlarged picture.

5. To resume the picture, press [ZOOM] once more, then screen shows "ZOOM OFF".

• 31 •
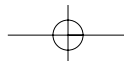
PLAY DISCS IN VARIOUS WAYS (Continued)

PROGRAM PLAY (VCD, AUDIO CD only)

You may program the tracks on a disc and play them in the programmed order.

■ WHEN PLAYING SUPER-VCD, VCD, CD

1. After the unit stops, press PROGRAM to select.

   PROGRAM

   The screen shows:

   PROGRAM P00:00
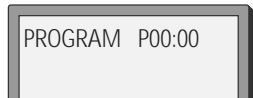
2. Press number buttons in order, according to the track to be programmed.
   Example: Press 2, 4, 6, 8.

   screen

   2

   PROGRAM P01:02

   ●
   ●
   ●

   8

   PROGRAM P04:08

   Notes:

   P ∗ ∗ : ∗ ∗
   track number
   program order
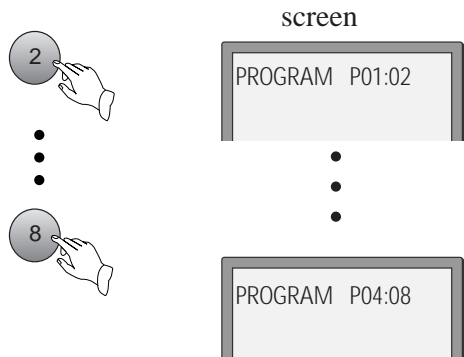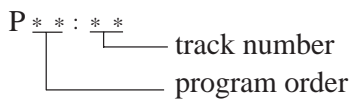
3. Press PLAY to start playing.

4. Press PROGRAM twice to remove program play.

DIGEST PLAY (VCD, AUDIO CD only)

■ WHEN PLAYING SUPER-VCD, VCD

1. Press INTRO after the unit stops.
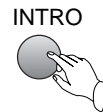
   INTRO

   The screen shows:

   1. INTRO   3. TRACK
   2. DISC   4. EXIT

2. Press number buttons to select a digest mode.

   Press button 1 for intro mode.

   1

   The unit plays each scene for about 10 seconds.

3. Press button 2 for disc digest.

   2
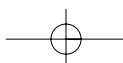
PLAY DISCS IN VARIOUS WAYS (Continued)

The unit shows the starting picture of all the scene on the screen simultaneously.

SCENE01	SCENE02	SCENE03
SCENE08	SCENE09	SCENE04
SCENE07	SCENE06	SCENE05

If the scene number is more than 9, press ▶▶ to look at the next picture.

4. Press number buttons to select a track.

Press button 3 for scene digest.

Press ▶▶ to select a track.

The unit divides scene 3 into nine parts ans shows the starting picture of each part on the screen.

1	2	3
8	9	4
7	6	5

5. Press button 4 to exit from digest play.

6. Remove digest play.

Press ■, digest play is removed and the unit stops.
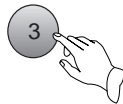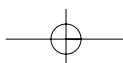
PLAY DISCS IN VARIOUS WAYS (Continued)

■ WHEN PLAYING CD

1. Press INTRO after the unit stops.
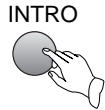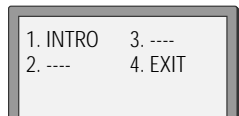
INTRO

The screen shows:

1. INTRO	3. ----
2. ----	4. EXIT

2. Press number buttons to select a digest mode.

   Press button 1 for intro mode.

1
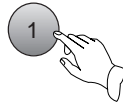
The unit plays the first 15 seconds of each track one after another.

Press ◄◄,►► to play the first 15 seconds at the previous or next track.

3. Press button 4 to exit from digest play.

4

4. Remove digest play.

   Press ■, digest play is removed and the unit stops.

■
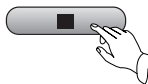
Notes : CD only has "INTRO" function.

PLAY KARAOKE

■ Load a karaoke disc and play it.

1. Set karaoke disc and play it.

2. Insert the microphone into MIC1 or MIC2.

MIC1   MIC2

3. Turn knob "MIC LEVEL" and "ECHO" to obtain the needed degree.

MIC LEVEL   ECHO
MIN   MAX   MIN   MAX
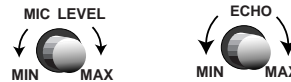
4. Push number buttons to select tracks.

■ KEY CONTROL

You may change the pitch to adapt to your voice.

1. Push # to raise the pitch.

#
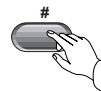
Each time you push the button, the pitch is raised by one step. It can be raised by 7 steps at the most.

2. Push ♭ to lower the pitch.

♭
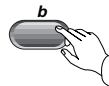
Each time you push the button, the pitch is lowered by one step. It can be raised by 7 steps at the most.

• 34 •
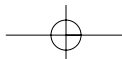
FUNCTION SETTING

DVD MENU SETTING

According to the recorded information and external equipment,set the following functions for DVD to obtain the best playing status.
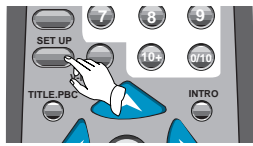
1. Press SETUP to set the main menu.

SETUP

The screen shows:

```
SETUP MENU -- MAIN PAGE
► GENERAL  SETUP
► SPEAKER SETUP
► DOLBY DIGITAL SETUP
► DOLBY SURROUND SETUP
► PREFERENCES
EXIT SETUP
```
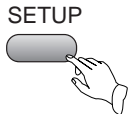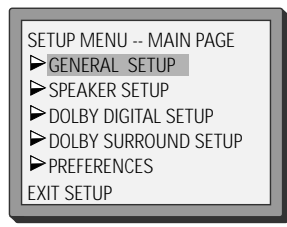
2. Press direction buttons (▲,▼) and press PLAY to confirm.

Example: Set "DUAL MONO" in "DOLBY DIGITAL SETUP" to "L-MONO".

• Press direction button ▼ to select. The screen shows:

```
SETUP MENU -- MAIN PAGE
► GENERAL  SETUP
► SPEAKER SETUP
► DOLBY DIGITAL SETUP
► DOLBY SURROUND SETUP
► PREFERENCES
EXIT SETUP
```
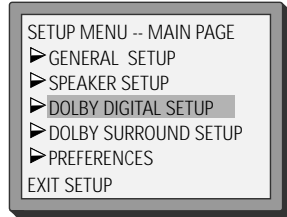
• Press PLAY to confirm and enter "DOLBY DIGITAL SETUP ".

The screen shows:

```
-- DOLBY DIGITAL SETUP --
OP MODE    LINE OUT
DUAL MONO
DYNAMIC

► MAIN PAGE
```
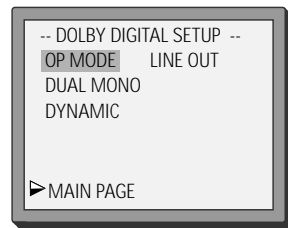
After entering the menu, the unit automatically selects a column.
• Press the direction button ▼ to select "DUAL MONO".

The screen shows:

```
-- DOLBY DIGITAL SETUP --
OP MODE
DUAL MONO  STEREO
DYNAMIC    L-MONO
           R-MONO
           MIX-MONO
► MAIN PAGE
```
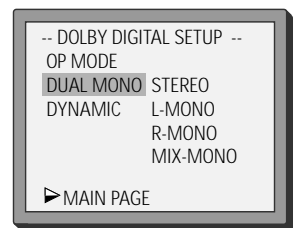
Press direction button ► ,▼ to select "L- MONO"

The screen shows:

```
-- DOLBY DIGITAL SETUP --
OP MODE
DUAL MONO  STEREO
DYNAMIC    L-MONO
           R-MONO
           MIX-MONO
► MAIN PAGE
```

• Press PLAY to confirm.

PLAY

• 35 •
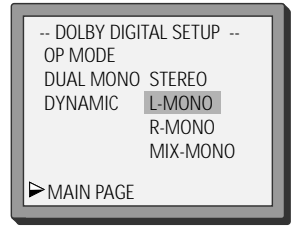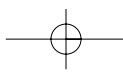
FUNCTION SETTING (Continued)

3. Exit from menus.

Using direction buttons go to
"▸MAIN PAGE" menu, then press (PLAY) .
The screen shows.

```
SETUP MENU -- MAIN PAGE
▸GENERAL  SETUP
▸SPEAKER SETUP
▸DOLBY DIGITAL SETUP
▸DOLBY SURROUND SETUP
▸PREFERENCES
EXIT SETUP
```
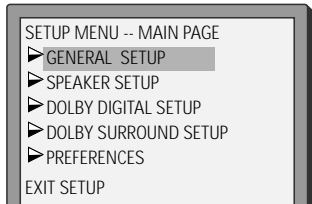
• To select "GENERAL SETUP" menu,
press (PLAY) .

GENERAL SETUP

The setting structure is as follows:

```
— TV DISPLAY      >> NORMAL/PS
                     NORMAL/LB
                     WIDE

— TV TYPE         >> AUTO
                     NTSC
                     PAL

— PIC MODE        >> AUTO
                     HI-RES
                     N-FLICKER

— ANGLE MARK      >> ON
                     OFF

— OSD LANG        >> ENGLISH
                     FRENCH
                     SPANISH

— AUDIO OUT       >> ANALOG
                     SPDIF/RAW
                     SPDIF/PCM

— CAPTIONS        >> ON
                     OFF

— SCR SAVER       >> ON
                     OFF

— MAIN  PAGE
```

■ TV DISPLAY

1. NORMAL/ PS (PAN SCAN)
This is selected when the unit is
connected with a normal TV.
Wide-screen images are shown on the
screen, but with some parts cut
automatically.

2. NORMAL / LB (LETTER BOX)
This is selected when the unit is
connected with a normal TV. Wide-
screen images are shown on the screen,
with black belt on the top and bottom.

3. WIDE
This is selected when the unit is
connected with a wide-screen TV.
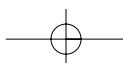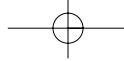
FUNCTION SETTING (Continued)

■ TV TYPE

You may select according to the colour system of the TV to be connected.

• Select "AUTO" for a multi-system TV.
• Select "NTSC" for a NTSC TV.
• Select "PAL" for a PAL TV.

■ PIC MODE

• Select "AUTO" for automatically setup.
• Select "HI-RES" for high-resolution picture.
• Select "N-FLICKER" for no flicker picture.

■ ANGLE MARK

This only works when there is an angle mark on the disc.
• Select "ON",the screen shows the mark when playing a DVD.
• Select "OFF",the mark is not shown.

■ OSD LANGUAGE

• ENGLISH

  The OSD is in English.

• FRENCH

  The OSD is in French.

• SPANISH

  The OSD is in Spanish.

■ AUDIO OUT

• ANALOG: No signal is output from the coaxial and optical port.

• SPDIF/RAW: Select this when the DVD player is connected with a power amplifier through coaxial port, refer to page 15. When a Dolby Digital DVD, DTS DVD or MPEG DVD is played, the coaxial port will output in the corresponding digital(Source code) format. The power amplifier to be connected must have Dolby Digital, DTS and MPEG decoding.

• SPDIF/PCM: Select this when the DVD player is connected with a 2-channel digital mode or stereo amplifier (refer to page 15 for the connection). When a Dolby Digital or MPEG DVD is played, the coaxial port will output in PCM 2-channel format.

Notes:

In case of selecting SPDIF/RAW or SPDIF/PCM, no signal is output from the audio analog output.

■ CAPTIONS

CAPTION was invented for hearing impaired person. But it is very useful when learning foreign languages. If your TV supports closed caption, select ON. If not, closed caption won't be displayed.

• ON : The hidden subtitle is shown.

• OFF : The hidden subtitle is turned off.

■ SCREEN SAVER

Start the screen saver, the screen saver image appears when the unit stops or the image is frozen for a few minutes. This saver can keep the screen from being damaged.

• ON: Start the screen saver.

• OFF: Remove the screen saver.
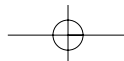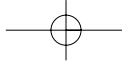
FUNCTION SETTING (Continued)

SPEAKER SETUP

The setting structure is as follows :

```
- -SPEAKER SETUP PAGE - -
   DOWNMIX        >> LT/RT
                  >> STEREO
                  >> VSS
                  >> OFF
   CENTER         >> ON
                  >> OFF
   REAR           >> ON
                  >> OFF
   SUBWOOFER      >> ON
                  >> OFF
   CNTR DELAY     >> 5MS
                  >> 3MS
                  >> 1MS
                  >> OFF
   REAR DELAY     >> 15MS
                  >> 9MS
                  >> 3MS
                  >> OFF
   TEST TONE      >> ON
                  >> OFF
```

■ DOWNMIX (Dolby Digital DVD disc only)

DOWNMIX is used to reproduce the proper analog audio when the audio channel recorded on the disc differs from the output audio channel configuration. Assume that 5.1 channels audio are recorded on the disc but you can receive only stereo audio channels. In this case downmix is unavoidable and you will hear all the channels recorded on disc. If you are using Dolby Surround Pro Logic decoder, please set the downmix mode to LT/RT. And the last sub item stereo makes the downmixing operation stops. This means that you are using the full 5.1 channel audio system. If you don't have an amplifier, which have Dolby Digital, dts decoder or 5.1 channel analog audio input, do not select this stereo sub item. If you do that you may hear the front stereo sound only. Select this stereo sub item when you are going to use the full 5.1 channel analog audio with your amplifier.

CENTER

This submenu is valid when you are using an amplifier, which have the 5.1 channel analog audio Input. If you have the center speaker, please turn the sub item ON. If not, turn OFF. If you are going to adjust the center delay, please turn the sub item ON. If not, you can't adjust the center delay.

REAR

This submenu is valid when you are using an amplifier, which have the 5.1 channel analog audio Input. If you have the rear speaker, please turn the sub item ON. If not, turn OFF. If you are going to adjust the rear delay, please turn the sub item ON. If not, you can't adjust the rear delay.

SUBWOOFER

This submenu is valid when you are using an amplifier, which have the 5.1 channel analog audio Input. If you have the subwoofer speaker, please turn the sub item ON. If not, turn OFF.

CNTR DELAY

You can adjust the sound in home by adding delay time to the center speaker. See REAR DELAY for more information.

• 38 •

FUNCTION SETTING (Continued)

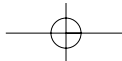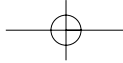## SPEAKER SETUP

REAR DELAY

Like CNTR DELAY, you can adjust the sound in home by adding dealy time to the rear speaker. You may hear the best quality sound if the distance between speakers is same when playing 5.1 channel surround sounds. But the displacement of speakers with same distance is very difficult in real. Please refer the following figure and table, set the appropriate delay time.

	Df-Dc(cm)	Value(ms)
	Df<=Dc	OFF
Center	34	1
Speaker	68	2
Delay	102	3
	136	4
	170	5

	Df-Ds(cm)	Value(ms)
	Df<=Ds	OFF
Rear	102	3
Speaker	204	6
Delay	306	9
	408	12
	510	15

Ideal Front Speaker

Ideal Surround Speaker

DOLBY DIGITAL SETUP

The setting structure is :

```
- -DOLBY DIGITAL SETUP PAGE - -
── OP MODE        >> LINE OUT
── DUAL MONO      >>  STEREO
                      L-MONO
                      R-MONO
                      MIX-MONO
── DYNAMIC        >> FULL
                     6/8
                     4/8
                     2/8
                     OFF
──►MAIN PAGE
```
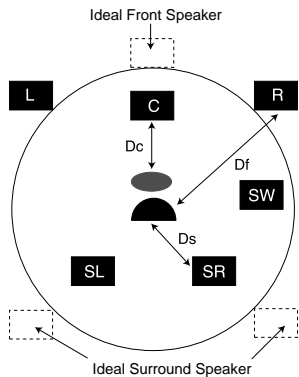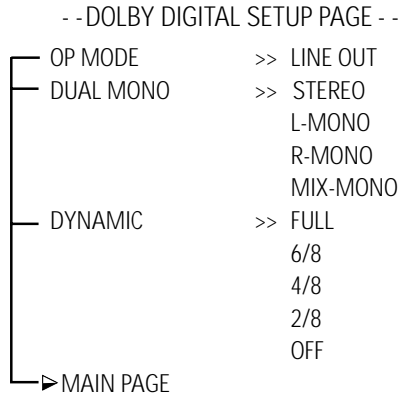
■ OP MODE

• LINE OUT: Compress input signals linearly.

■ DUAL MONO

There is the output mode of the L and R signals of the set audio output. If it is set to "MIX-MONO", the function only works when the DVD being played is 5.1-channel.

■ DYNAMIC

When the compression mode is set to "LINE OUT", this is selected to adjust linear compression rate to obtain the different compression results of the signals.

• 39 •
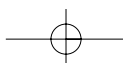
FUNCTION SETTING (Continued)

DOLBY SURROUND SETUP

The setting structure is :

- -DOLBY SURROUND SETUP- -

SURROUND   >> OFF
                    ON
                    AUTO

■ SURROUND

If you are using Dolby surround decoder, please set the surround mode to ON.

And the other item OFF makes the Dolby surround operation stops.

This means that you are using the 2 channel audio system.

If you want to automatically setup, select last sub item AUTO.

PREFERENCES

The setting structure is :

```
┌─ AUDIO        >>  ENGLISH
│                   FRENCH
│                   SPANISH
│                   KOREAN
│                   PORTUGUESE
│                   JAPANESE
│
├─ SUBTITLE     >>  ENGLISH
│                   FRENCH
│                   SPANISH
│                   KOREAN
│                   PORTUGUESE
│                   JAPANESE
│                   OFF
│
├─ DISC MENU    >>  ENGLISH
│                   FRENCH
│                   SPANISH
│                   KOREAN
│                   PORTUGUESE
│                   JAPANESE
│
├─ PARENTAL     >>  1. G
│                   2.
│                   3. PG
│                   4. PG 13
│                   5.
│                   6. PG-R
│                   7. NC-17
│                   8. ADULT
│                   NO PARENTAL
│
├─ PASSWORD     >>  CHANGE
│                   >> OLD PASSWORD
│                      NEW PASSWORD
│                      CONFIRM PWD
│
├─ DEFAULTS     >>  RESET
│
└─ ►MAIN PAGE
```
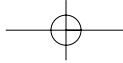
Notes:

To enter into the preference setting mode during the play, press the STOP button twice.

• 40 •
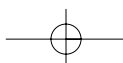
FUNCTION SETTING (Continued)

■ SELECT LANGUAGE

If a language mentioned above is recorded on the disc, you can select audio, subtitle or disc menu languages. If not, the language recorded on the disc is shown.

■ PARENTAL

The content of a disc with lock function is evaluated by grades.

You may select an age control grade as you need.

Example: Select "G", the scenes of violence inadvisable are not played to children.

For adults, the screen suggests you enter the code after pressing (PLAY) ,
you can watch if the password is right.
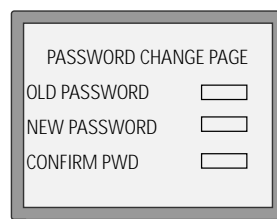
Notes: The password is set by yourself

■ PASSWORD

```
- -PASSWORD SETUP  - -
PASSWORD >>CHANGE>> OLD PASSWORD
                    NEW PASSWORD
                    CONFIRM PWD
```

Select this to adapt the code, the screen shows:

```
PASSWORD CHANGE PAGE
OLD PASSWORD      [____]
NEW PASSWORD      [____]
CONFIRM PWD       [____]
```

Enter a password according to the screen.

Notes:

The password is 3308 when the unit is turned on initially or you forget the password.

■ DEFAULTS >> RESET

Each function setting returns to the initial status in the factory if you select this.

• 41 •

TROUBLESHOOTING

If you experience the following problems while using the unit, this troubleshooting guide can help you.

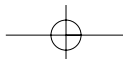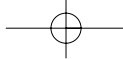**No sound**
• Check if you press the MUTE.
• Check if the unit is properly connected.
• Make sure you operate the TV or amplifier correctly.
• Make sure the DVD player or the amplifier position is properly selected .
• Make sure the audio output is set properly . (Check the audio output mode of the general setup in Setup menu)
• Check whether the disc plays in slow or fast forward (or reverse) mode.

No image
• Check if the unit is properly connected.
• Make sure you operate the TV correctly.
• Make sure you set the colour system correctly.

Bad sound quality
• Make sure the audio output mode is set correctly.
• Make sure the audio connection between the unit and amplifier is right.
• Check whether the disc is dirty or damaged.

Image rolls and no colour
• The colour system set by this unit does not match with that of TV. Press P/N on the remote control to select the correct one.
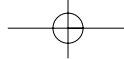• Check whether the disc is dirty or damaged.

Disc can not be played
• There is no disc in the unit.
• Insert the disc on the disc tray properly with the label side up.
• Clean the disc.
• Moisture has condensed in the unit. Remove the disc and leave the unit on for about one hour.
• Make sure that the area code of disc is 4 or All. (In case of DVD, it may not play the disk which come from abroad.)

Remote control does not work
• Remove barriers between the remote control and the unit.
• Point the remote control at the remote control sensor of the unit.
• Replace the batteries with new ones.
• Reference page 8.

• 42 •

TECHNICAL SPECIFICATIONS

Laser		wavelength 650nm
Television signal		NTSC /PAL/AUTO
Frequency response		20Hz ~ 20KHz
Audio Signal/noise ratio		≥ 90dB (At 1KHz, JIS A-Weighted)
Audio distortion + noise		≤ - 60dB (At 1KHz, 0dB)
Channel separation		≥ 90dB (1KHz)
Dynamic range		≥ 85dB (1KHz)
Output Audio	Analog	output level : 2.0 ± 0.2Vrms (Load impedance : 10KΩ)
	Digital	output level : 0.5 ± 0.1Vp-p (Load impedance : 75Ω)
Output Video	Composite	output level : 1.0 ± 0.2Vp-p (Load impedance : 75Ω, imbalance, negative polarity)
	S-video	output level : brightness (Luma) 1.0 ± 0.2Vp-p chromaticity (Clor) 0.286 ± 20% (Load impedance : 75Ω)
	Component	0.7Vp-p (Load impedance : 75Ω)
Power supply		AC100~240V, 50/60Hz
Power consumption		<25W
Dimensions (W x H x D)		430 x 76.5 x 277 mm
Weight		Around 4.5Kgs

Notes : Design and specifications in this owner's manual are subjected to change
without prior notice to improve quality and function.
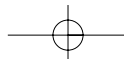
REGIONAL RESTRICTION CODE

Regional restriction codes are built in this DVD player model and all DVD discs for each sales region throughout the world. If regional code of this DVD player does not match with regional code of DVD disc that you want to playback, if won't work. The regional code number can be found the diagram below .
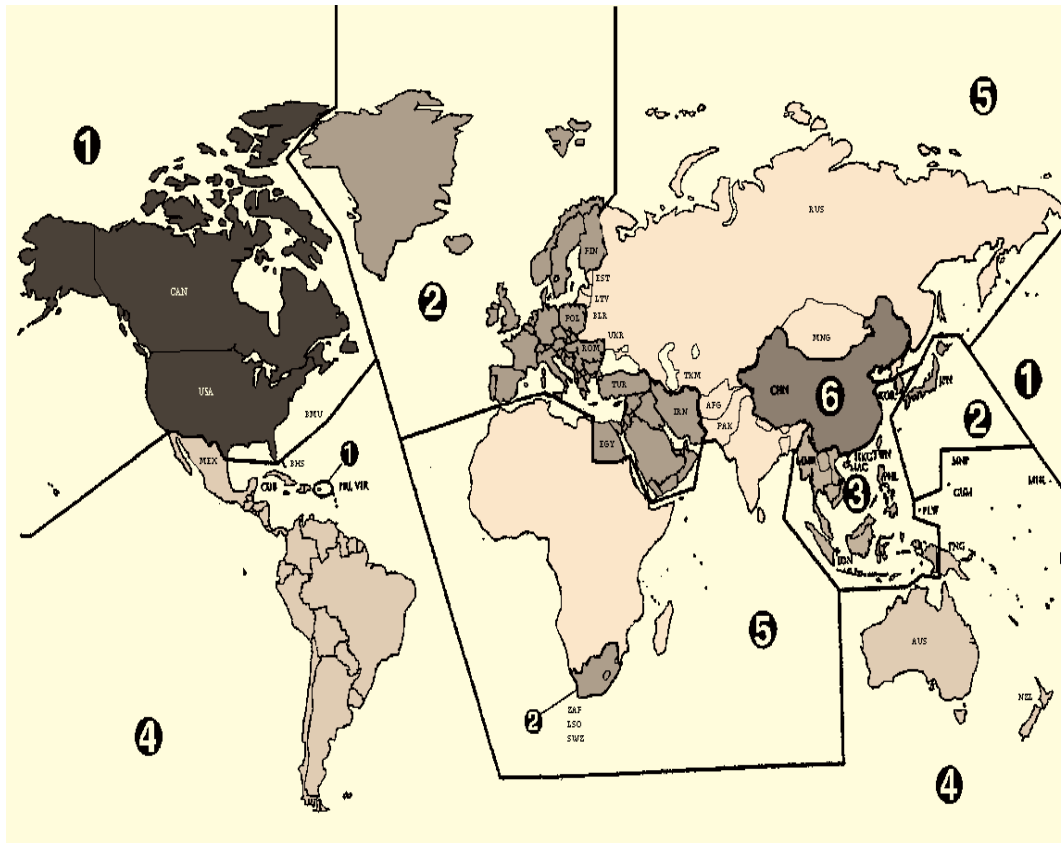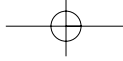
DAEWOO

DVD
PLAYER

OWNER'S MANUAL

DVG-8000N

HECHO EN COREA

Importado y distribuido por:
Daewoo Electronics Corporation de México, S.A. de C.V.
Alce Blanco #36
Fracc. Industrial Alce Blanco
53370 Naucalpan, Edo. de México
Tel.   5-329-2400
Lada 01-800-8492882