

AH68-00443F

## Precautions

EDUCE THE RISK OF ELECTRIC SHOCK, DO NOT OVE THE COVER(OR BACK). ISER-SERVICEABLE PARTS ARE INSIDE. REFER /ICING TO QUALIFIED SERVICE PERSONNEL.

ingeroduct ctric

This symbol indicates important instructions accompanying the product.

N INVISIBLE LASER BEAM WHICH CAN RADIATION EXPOSURE IF DIRECTED. TE PLAYER CORRECTLY AS INSTRUCTED.

atch wide blade of plug to wide slot, fully insert. riques, introduíre la lame la plus large de la fiche dans e la prise et pousser jusqu au fond.

when shielded cables and connectors are used to o prevent electromagnetic interference with electric ions, use shielded cables and connectors for

ound to comply with the limits for a Class B digital C rules. These limits are designed to provide reasonrence in a residential installation. This equipment genquency energy and, if not installed and used in accore harmful interference to radio or television reception, ne equipment off and on, the user is encouraged to try nore of the following measures.

itenna.

equipment and receiver. et on a circuit different from that to which the receiver is

d radio/TV technician for help. all requirements of the Canadian Interference --

#### 1 LASER PRODUCT N 1 LASER LAITE 1 LASER APPARAT

#### WARNING CAUTION THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES To reduce the risk of fire or OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN shock hazard, do not expose this HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVER AND DO NOT REPAIR YOURSELF. REFER SERVIC-DVD player to rain or moisture. ING TO QUALIFIED PERSONNEL.

#### Note:

- This unit can be used only where the power supply is AC 120V. 60Hz. It cannot be used elsewhere.
- This DVD player is designed and manufactured to respond to the Region Management Information. If the Region number of a DVD disc does not correspond to
- the Region number of this DVD player, the DVD player cannot play the disc. This device is protected by U.S. patent numbers 4,631,603, 4,577,216 and 4,819,098 and other intellectual property rights. The use of Macrovision's copy protection tech-nology in the device must be authorized by Macrovision and is intended for home and other limited pay-per-view uses only, unless otherwise authorized in writing by Macrovision. Reverse engineering or disassembly is prohibited.

#### Handling Cautions

- Before connecting other components to this player, be sure to turn them all off.
- Do not move the player while a disc is being played, or the disc may be scratched or broken, and the player's internal parts may be damaged.
  Do not put a flower vase filled with water or any small metal objects on the player.
- · Be careful not to put your hand into the disc tray.
- Do not place anything other than the disc in the disc tray.
- Exterior interference such as lightning and static electricity can affect normal operation
  of this player. If this occurs, turn the player off and on again with the POWER button, or disconnect and then reconnect the AC power cord to the AC power outlet. The player will operate normally.
- · Be sure to remove the disc and turn off the player after use.
- Disconnect the AC power cord from the AC outlet when you don't intend to use the play-er for long periods of time.
- Clean the disc by wiping in a straight line from the inside to the outside of the disc.

#### Disc Storage

Be careful not to harm the disc because the data on these discs is highly vulnerable to the environment.

- Do not keep under direct sunlight.
- Keep in a cool ventilated area.
- Store vertically. · Keep in a clean protection jacket.

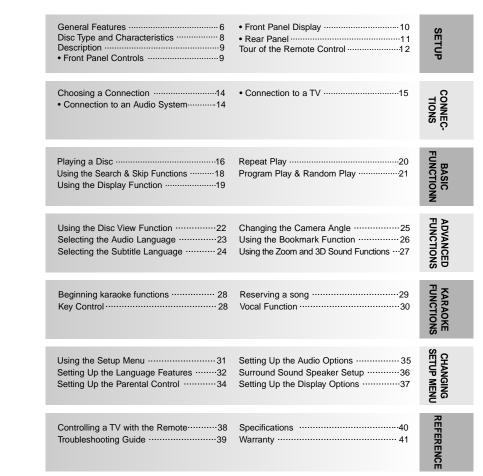
#### Maintenance of Cabinet

For safety reasons, be sure to disconnect the AC power cord from the AC outlet. · Do not use benzene, thinner, or other solvents for cleaning.

. Wipe the cabinet with a soft cloth.



# **TABLE OF CONTENTS**





tteries for

mote Control A Size)

er's Manual

Video/Audio Cable

Check the polarity + - of the batteries (Dry-Cell)
Check if the batteries are

drained.

If remote doesn't operate

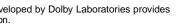
properly:

- Check if remote sensor is blocked by obstacles.
- Check if there is any fluorescent lighting nearby.

l in a format different from the global DVD amsung, may not be played. different manufacturing quality, may not be

with "\*.mp3" extension), above 128K bps ers, can be played.

## **G**eneral Features



ion technology. Both regular and be viewed.

wed in slow motion.

in desired order.

ers to set the level necessary to prohibit movies such as those with violence, adult

#### nctions

ges(Audio/Subtitle) and screen angles while

ie simply by pressing the REPEAT button.



SETUP

7

## COPY PROTECTION

- · Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.
- This product incorporates copyright protection technology that is protected by methods 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 view-ing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

#### aracteristics

playing the following types of discs with the

isc Size	Max. Playing Time	Characteristics
5"	Single-sided 240 min. Double-sided 480 min.	• DVD contains excellent sound and video due to Dolby Digital and MPEG-2 system.
31/2"	Single-sided 80 min. Double-sided 160 min.	<ul> <li>Various screen and audio functions can be easily selected through the on- screen menu.</li> </ul>
5"	74 min.	• Video with CD sound,
31/2"	20 min.	VHS quality & MPEG-1 compression technology.
5"	74 min.	<ul> <li>An LP is recorded as an analog signal with more distortion. CD is recorded as a Digital Signal with</li> </ul>
31/2"	20 min.	better audio quality, less distortion and less deteri- oration of audio quality over time.
DVD-ROM ii )	n this player!	

STEREO DIGITAL Dolby



are coded by region. These regional codes must match des do not match, the disc will not play.

DIGITAL SOUND

Audio disc

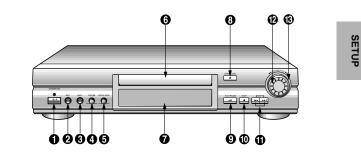
Digital

dts

DTS disc

#### r is described on the rear panel of the player.

## **D**escription-Front Panel

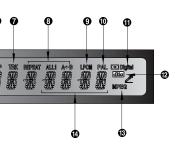


#### Front Panel Controls

- STANDBY / ON
- When the unit is first plugged in, the indicator lights. When STANDBY/ON is pressed on again, the light goes out and the player is turned on.
- Ø MIC 1
- Connect microphone 1 for Karaoke functions.
- MIC 2
- Connect microphone 2 for Karaoke functions.
- O VOLUME
- Use to adjust microphone volume level.
- DIGITAL ECHO
   Use to adjust echo delay.
- Press OPEN/CLOSE to open and close the disc tray.
- O DISPLAY
- Operation indicators are displayed here.
- O OPEN/CLOSE
- Press to open and close the disc tray.
- PLAY/PAUSE
- Begin or pause disc play.
- STOP
   STOP Stops disc play.
- O SKIP
- Use to skip a scene or music.
- IOG DIAL
- Operates frame by frame playback. In CD mode, performs track search.
- SHUTTLE DIAL
- Performs fast or slow motion playback.





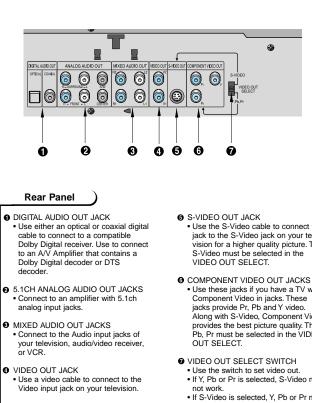


gles of a scene recorded by different cameras.

ack

erations such as PLAY, STOP, LOAD, RANDOM, ...

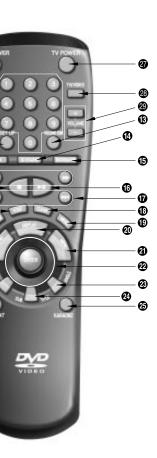
## **D**escription-Rear Panel



SETUP

- Use the S-Video cable to connect this jack to the S-Video jack on your television for a higher quality picture. The S-Video must be selected in the
- Use these jacks if you have a TV with Component Video in jacks. These Along with S-Video, Component Video provides the best picture quality. The Y, Pb, Pr must be selected in the VIDEO OUT SELECT.
- . If Y, Pb or Pr is selected, S-Video may
- If S-Video is selected, Y, Pb or Pr may not work.

### te Control



## DVD Function Buttons

- DVD POWER Button
- O NUMBER Buttons
- OPEN/CLOSE Button
- SETUP Button
  Brings up the DVD player's Setup menu.
- ZOOM Button
- SEARCH Buttons
   Allows you to search forward/backward through a disc.
- STOP Button • STEP Button
  - Advances playback one frame at a time.
- RETURN Button
   Returns to a previous menu.
- TOP MENU Button
   Accesses a music or video display directly.
- AUDIO Button
- Use this button to access various audio functions on a disc.
- REPEAT Button
- Allows you to repeat play a title, chapter, track, or disc.
- VOLUME CON. Button
   To control the master volume of the
- player.
- ③ 3D SOUND Button

#### TV Function Buttons

- CHANNEL UP/DOWN Buttons
- TV POWER Button
- Use to set the remote to control a compatible TV.
- TV/VIDEO Selection Button
- VOLUME UP/DOWN Buttons

Tour of the Remote Control

- BOOKMARK Button
- PLAY/PAUSE Button
   Begin/Pause disc play
- SKIP Buttons
- Use to skip the title, chapter, or track. • CLEAR Button
- Use to remove menus or status displays from the screen.

SETUP

- MODE Button
- Allows you to program a specific order.
  DISPLAY Button
- Displays the current disc mode. **MENU Button**
- Brings up the Disc menu. 2 ENTER/DIRECTION Button
- (UP/DOWN or LEFT/RIGHT Button) • This button functions as a toggle switch.
- ANGLE Button
   Use to access various camera angles on
- a DVD.
- SUBTITLE Button
- KARAOKE Button
   Use to begin karaoke functions.



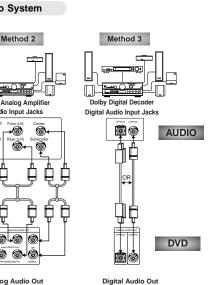
#### ction

of connections commonly used to connect other components.

#### VD Player

, TV, and other components before you connect

additional components you are connecting for ticular components.



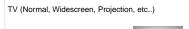
og Audio Out

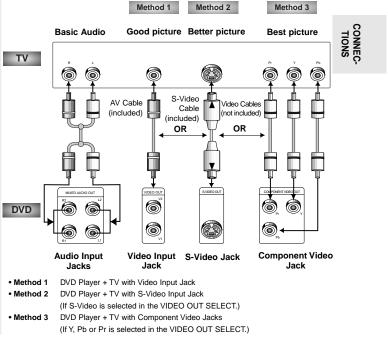
Amplifier or Dolby Pro Logic Decoder with 5.1ch Analog Input Jacks

with Dolby Digital Decoder/DTS Decoder

## **C**hoosing a Connection

#### Connection to a TV (For Video)







• If Y, Pb or Pr is selected, S-Video may not work.

• If S-Video is selected, Y, Pb or Pr may not work.

## **P**laying a Disc

#### Before Playback

- rn on a TV and press the TV/VIDEO button to lect video mode.
- rn on your Audio System and select AUX, CD or /D.
- efer to your AUDIO User's Manual.
- er plugging in the player, the first time press the DVD POWER button, this een comes up :
- u want to select the language, press a NUMBER on. (This screen will only appear the very first time plug in the player.)

#### Playback

trav opens.



Press the OPEN/CLOSE button. The STANDBY indicator light goes out and the



Place a disc gently into the tray with the disc's label facing up



remembers where you stopped, so when you press left off (unless the disc is removed, the STOP button

pause mode, it will stop.

- off after approximately 30 minutes have elapsed in ure).
- for more than one minute without any user interacd, and the TV screen will fade in and fade out repeatnormal play.
- utton press.

ugged.).

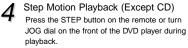


#### Removing Disc

2 Press the OPEN/CLOSE button.

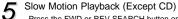
#### Pausing Playback 3

- Press the PLAY/PAUSE or STEP button on the remote during playback.
- Screen stops, no sound. - To resume again, press PLAY/PAUSE button
- once again.



- Each time the button is pressed, a new frame will appear.
- No sound is heard during STEP mode.
- Press PLAY/PAUSE to resume normal playback.

(You can only perform step motion playback in the forward direction.)



- Press the FWD or REV SEARCH button on the remote or turn the SHUTTLE dial on the front of the DVD player during PAUSE or STEP mode.
- By pressing the SEARCH button, you can select slow motion playback for 1/2, 1/4 or 1/8 of normal speed.
- No sound is heard during slow mode.
- Press PLAY/PAUSE to resume normal playback.
- When playing a VCD, the reverse slow motion playback will not work.



BASIC FUNCTIONN

#### & Skip Functions

ch quickly through a chapter or track or use e next selection.

#### earching through a Chapter or Track

Press the FWD or REV SEARCH button on the remote or turn the SHUTTLE dial on the front of the DVD player during PLAY mode.

ess the REVERSE or FORWARD SEARCH button on e remote and press again to search at a faster eed(2X/4X/8X/16X/32X/normal speed, in order) on DVD.

ess the REVERSE or FORWARD SEARCH button on e remote and press again to search at a faster eed(4X/8X/normal speed in order) on VCD and CD. return to normal speed playback, press the PLAY/ USE button

#### kipping Tracks

During playback, press the NEXT SKIP or BACK SKIP button.

hen playing a DVD, if you press the NEXT SKIP butn, it moves to next chapter. If you press the BACK IP button, it moves to the beginning of the chapter. he more press makes it move to the beginning of the . evious chapter.

hen playing a VCD 2.0 in MENU OFF mode, a VCD I or a CD, if you press the NEXT SKIP button, it oves to next track. If you press the BACK SKIP button, noves to the the beginning of the track. One more ess makes it move to the beginning of the previous ck.

a track exceeds 15 minutes when playing a VCD and u press the NEXT SKIP button, it moves forward 5 nutes. If you press the BACK SKIP button, it moves ckward 5 minutes.

hen playing a VCD 2.0 in the MENU MODE or Track ew function, if you press the NEXT SKIP button, it oves to the next MENU or the next Track View display. ou press the BACK SKIP button, it moves to the preus MENU or the previous Track View display. (See ge 22.)

# O O O DVD T:01▲▼ C:04 0:06:54 ENG 5.1 CHAY ENG ON **9**9

CD T:01AV 0:06:54 99

Using the Display Function

#### When Playing a DVD

- During playback, press the DISPLAY 1 button on the remote.
- Current title, chapter number and elapsed time will be displayed
- Use the LEFT/RIGHT button to select a title or a chapter number.

Use the UP/DOWN button or Number buttons to enter a different title or chapter number, then press the ENTER button.

. To enter the time from which you want to start, use the LEFT/RIGHT button to select, then use the Number buttons to enter the time. Then press the ENTER button.



Ζ remote twice.

- Current audio, subtitle and volume control will appear. - To make the screen disappear, press the DISPLAY button again.

#### When Playing a CD/VCD

- During playback, press the DISPLAY button on the remote.
- Current track number, elapsed time and volume control will be displayed.
- Use the LEFT/RIGHT button to select a track. Use the UP/DOWN button or Number buttons to enter a different track number, then press the ENTER button.
- . To enter the time from which you want to start, use the LEFT/RIGHT button to select, then use the Number buttons to enter the time. Press the ENTER button.
- To make the screen disappear, press the DISPLAY button again.



Each Title on a DVD can be divided into chapters (similar to tracks on an audio CD). What is a Title?

A DVD may contain several different titles. For example, if a disc contains four different movies, each might be considered a title.



BASIC FUNCTIONN

ter, title, a chosen section (A-B), or all of the

#### When playing a DVD

- Press the REPEAT button on the remote. Repeat screen appears.
- Select Chapter, Title or A-B using the LEFT/RIGHT button.
- -B Repeat
- ress the REPEAT button. Select A-B on screen with e LEFT/RIGHT button. Or press the A-B button on e remote.
- ess ENTER at the point where you want the repeat ay to start (A). The B is automatically highlighted. ress ENTER at the point where you want the repeat ay to stop (B).
- e A-B Repeat that you set plays until you turn epeat off.



- To return to normal playback press REPEAT again, then press the LEFT/RIGHT button to select Off and
- press ENTER.

- r title, CD and VCD repeat playback by disc or track. function may not work. ore marking the end (B), the end of title or track
- I mode), this function does not work.

#### 



#### Program Playback (DVD/VCD/CD)

**P**rogram Play & Random Play

- Press the MODE button.
   Use the LEFT/RIGHT button to select PROGRAM. Press the ENTER button.
   Use the LEFT/RIGHT button to select the first chapter (or track) to add to the program. Press the ENTER button. The selection numbers appear in the Program Order box.
  - Press the PLAY/PAUSE button. The disc will be played back in programmed order.



#### NOTE

- Depending on the disc, the Program and Random Playback function may not work.
- When in VCD 2.0 mode (MENU ON mode), these functions do not work.
- To resume normal playback, press the CLEAR button.

#### Random Playback (DVD/VCD/CD)

- Press the MODE button.
- 2 Use the LEFT/RIGHT button to select RANDOM. Press the ENTER button. The disc will be played back in random order.

#### ew Function

#### ack View (VCD)

blays the beginning view of each track and track number.

- During playback, press the TOP MENU button.
- Press the UP/DOWN button to select TRACK VIEW. Press the ENTER button.
- Select the desired view by pressing the UP/DOWN or LEFT/RIGHT buttons.
- Press the ENTER button.

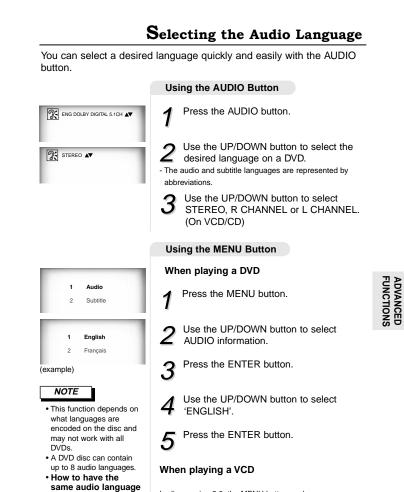
#### ndex View (VCD)

plays the equally divided 9 views of the rent playing track.

- During playback, press the TOP MENU button.
- Press UP/DOWN button to select INDEX VIEW. Press the ENTER button.
- Select the desired view by pressing UP/DOWN or LEFT/RIGHT buttons.
- Press the ENTER button.

P MENU button and the TRACK VIEW will be dis-

button with a DVD; the disc's TITLE MENU funcleast two titles for the TITLE MENU function to work. button with a CD; the unit enters the INTRO beginning of each track for about 10 seconds.



come up whenever you play back a DVD;

Refer to "Setting Up the

Language Features" on

page 32.

In disc version 2.0, the MENU button works as a conversion switch between MENU ON and MENU OFF mode. When playing a VCD 1.1 or CD, the MENU button will not work.

#### title Language

title quickly and easily with the SUBTITLE

#### sing the SUBTITLE button

- Press the SUBTITLE button.
- Use the UP/DOWN button to select the desired subtitle language.
- Use the LEFT/RIGHT button to determine whether or not the subtitle will be displayed.
- ially, the subtitling will not appear on screen. e audio and subtitle languages are represented by previations.

#### Jsing the MENU button

- Press the MENU button.
- Use the UP/DOWN button to select SUB-TITLE information.
- Press the ENTER button.
- Use the UP/DOWN button to select the desired language.
- Press the ENTER button.

#### en playing a VCD

sc version 2.0, the MENU button works as a conversion h between MENU ON and MENU OFF mode. n playing a VCD 1.1 or CD, the MENU button will not

## Changing the Camera Angle

When a DVD contains multiple angles of a particular scene, you can select the Angle function.

#### Using the ANGLE button



(example)

Check to see if an 'ANGLE ( 🛒 )' mark is present at the upper left hand corner of the screen.

When an 'ANGLE' mark is shown, press the ANGLE button.



Use the UP/DOWN button to select the desired screen angle. Then press the ENTER button.

To turn off the display, press the ANGLE 3 button again.

ADVANCED FUNCTIONS

#### Using the Master Volume Control Function

- Press the DISPLAY button twice. Use the UP/DOWN button to select a suitable volume.
- Master Volume Control function lets you adjust the volume of the player's output. This is useful for matching the player's output level to other equipment in your system
- Master Volume Control function on CD titles with DTS will not work under VOLUME : 99 level
- When the DIGITAL OUTPUT is set to BITSTREAM in the SETUP MENU, the Volume Control function will not work.

#### rk Function

u select parts of a DVD or VCD (MENU ickly find the section at a later time.

#### sing the Bookmark Function (DVD/VCD)

- During playback or pause, press the BOOKMARK button on the remote. A marker will be displayed.
- Use the LEFT/RIGHT button to move to the desired bookmark icon.
- When you reach the scene you want to mark, press the ENTER button. The icon will change to a number (1, 2, or 3).
- Press the BOOKMARK button to turn off the display.

#### ecalling a Marked Scene

- During playback, press the BOOKMARK button on the remote.
- Use the LEFT/RIGHT button to select a marked scene.
- Press the PLAY/PAUSE button to skip to the marked scene.

#### learing a Bookmark

- During playback, press the BOOK-MARK button on the remote.
- Use the LEFT/RIGHT button to select the bookmark number you want to delete.
- Press the CLEAR button to delete a bookmark number.
- Press the BOOKMARK button to turn off display.

## Using the Zoom & 3D Sound Functions

#### Using the Zoom Function (DVD/VCD)

- 1 During playback or pause mode, press the ZOOM button on the remote. A square will be displayed on screen.
- 2 Use the UP/DOWN or LEFT/RIGHT button to select the part of the screen you want to zoom.
- 3 Press the ENTER button.
  - )
- During DVD playback, press ENTER to zoom in 2X/4X/normal in order
- During VCD playback, press ENTER to zoom in 2X/normal in order.

#### Using the 3D Sound Function

The simulated surround effect (SPATIALIZER N-2-2) depends on the disc contents. If you connect the unit to your stereo system, you can enhance sound quality and produce a greater surround effect.

This feature is useful when you are using the DVD player with a two channel stereo through the analog outputs.

(Discs which are recorded with LPCM or DTS will not work. When the DIGITAL OUTPUT is set to BITSTREAM in the SETUP MENU, the 3D Sound function will not work.)

- During playback, press the 3D SOUND button. The 3D SOUND mark will be displayed on screen. (Be sure the DIGITAL OUTPUT is set to PCM.)
- 2 Press the UP/DOWN button to turn the 3D Sound feature on or off.
- **3** When the Karaoke function is on, the 3D sound can't be operated.

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**ADVANCED** FUNCTIONS



## NOTE

- 3D Sound is possible only on discs recorded using DOLBY SURROUND or DOLBY DIGITAL.
   However, some of these discs do not contain rear channel sound signals.
- Depending on the disc, the Zoom and 3D Sound function may not work.

#### e Functions

#### peration Sequence

- Connect the Mixed Audio Out terminals with the TV or AMP.
- Press the power button.
- Connect Mic into Mic 1 or Mic 2 jack. Then the karaoke mode is transferred to ON mode.
- disconnect the Mic makes the karaoke mode transfer OFF mode automatically.

#### y Control

- Pressing the KARAOKE button makes the karaoke ON mode.
- Select the "KEYCON" using the LEFT/RIGHT buttons.
- By use of the LEFT/RIGHT buttons, change to the desired tone.
- , : To let 7 scales down by half scale.
- ξ : Original scale.
- # : To let 7 scales up by half scale.

d to the Mic output.

2 CH

CVD, VCD Karaoke Disc					
D		Channel	Karaoke -Channel	CVD	VCD, CD
c + Vocal		1 CH	CH1 LEFT	Left stereo music + Vocal	Left stereo music
ic + Vocal		1 CH	CH1 RIGHT	Right stereo music + Vocal	Right stereo music
					+ Vocal

2 CH CH2 LEFT Left stereo music CH2 RIGHT Right stereo musi

<b>R</b> eserving a Song
lesired song in advance by use of

It is the function to reserve the desired song in advance by use of Karaoke function

#### Sequence of reservation

- Playback the Karaoke Disc containing 1 the wanted songs.
- After pushing the KARAOKE button of the remote transfer to the Karaoke ON mode using the UP/DOWN buttons.
- Select the "REQUEST" using the 3 LEFT/RIGHT buttons.
- Input the number (Track No.) of the 4 desired song into the flickering part(--).
- You can reserve up to 10 songs.
- When you want the next reserved song 5 during playing a song, press the SKIP button.

#### Cancellation of reservation

- Cancel by pressing the CLEAR button of 1 the remote.
- The last reserved song will be erased first.
- Continuous pressing of the CLEAR 2 button can cancel the next reserved song.
- If the reservation is required again, input 3 the song number in the flickering part.

## NOTE

KARAOKE : on AV KEYCON RE

REQUEST 03 02 ---

- Request function is available only when the Karaoke mode is "ON".
- When using "SKIP" button, it can not work at the last song.
   When using Request function, the "DISPLAY" and "REPEAT" function does not work.



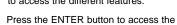
**KARAOKE** FUNCTIONS

## Using the Setup Menu

The Setup menu lets you customize your DVD player by allowing you to select various language preferences, set up a parental level, even adjust the player to the type of television screen you have.

#### With no disc playing, press the SETUP SETUP MENU 1 button on the remote. English English English Automatic Unlocked PLAYER MENU : Setup of the Display Language (See page 32) Use the Player preference menu to select the language for the player's on-screen displays. O DISC MENU : Setup of the Menu Language (See page 32) Use the Menu preference menu to select the language you want a DVD's disc menu to be displayed in. AUDIO : Setup of the Audio Language (See page 33) Use the Audio preference menu to select the soundtrack language. SUBTITLE : Setup of the Subtitle Language (See page 33) Use the Subtitle preference menu to select the language the disc's subtitles are to be displayed in. PARENTAL : Setup of the Parental Level (See page 34) Allows users to set the level necessary to prevent children from viewing unsuitable movies such as

- those with violence, adult subject matter, etc. AUDIO OPTIONS : Setup of the Audio Options (See page 35)
- **O DISPLAY OPTIONS :** Setup of the Display Options (See page 37) Use to select which type of screen you want to watch and several display options.
- Use the UP/DOWN button on the remote 2
- to access the different features.



To make the setup screen disappear after setting up, press the SETUP button again.

#### 31

CHANGING SETUP MENU

#### quence of reservation

Pressing the KARAOKE button twice displays the following in Karaoke ON mode:

#### cal Assist

put the vocal assist on when playing a Karaoke disc h change the vocal recorded on the disc (singer's ce) with your own voice.

e Vocal changed is one of the selected channel on OCAL FADER".

VOCAL ASSIST	VOCAL FADER	Remark
ON	V1	CH1. Vocal Change
ON	V2	CH2. Vocval Change
ON	1 + 2	CH1, CH2 CH. Vocal Change
OFF	OFF	Vocal Assist Off

#### ITIONS

s function is limited only to Karaoke disc and does work to the normal music disc. en putting the VOCAL FADER off, the VOCAL

SIST is off automatically, too.

#### cal Fader

e function to make the music only sound by cancelling al when playing a Karaoke disc.

VOCAL FADER	Remark
V1	CH1. Vocal Cancel
V2	CH2. Vocal Cancel
1 + 2	CH1, CH2. Vocal Cancel
OFF	Vocal Fader Off

/CD, CVD or CD, you can select only the ON or OFF.

#### ide Melody

guide melody through xylophone and piano help you g easily.

s function works only on the DVD Karaoke disc on ch the guide melody is recorded.



Player Mer Disc Menu Audio

3 Audio 4 Subtitle 5 Parental 5 Audio Opti

**C**RETURN

Display Option

Depending on the disc, some Setup Menu selections may not work.

3

sub features.

## nguage Features

c menu, audio and subtitle language in atically every time you watch a movie.

#### Using the Player Menu

- With no disc playing or stop, press the SETUP button.
- Use the UP/DOWN button to select the PLAYER MENU.
- Press the ENTER button.
- Use the UP/DOWN button to select 'ENGLISH'.
- 6 Press the ENTER button.
- IGLISH is selected and the screen returns to SETUP ENU. make the SETUP MENU disappear, press the ETURN button.

#### sing the Disc Menu Language

- s function changes the language only for text on the disc menu screens.
- With no disc playing or stop, press the SETUP button.
- Use the UP/DOWN button to select DISC MENU.
- Press the ENTER button.
- Use the UP/DOWN button to select 'ENGLISH'.
- lect "OTHERS" if the language you want is not listed.
- Press the ENTER button.
- GLISH is selected and the screen returns to SETUP NU.

## Setting Up the Language Features

Using the Audio Language With no disc playing or stop, press the 1 AUDIO LANGUAGE SETUP button. English Français Deutsch Español Italiano Nederlar Original Others Press the UP/DOWN button to move to AUDIO. 2 Press the ENTER button. 3 **O**RETURN Press the UP/DOWN button to select 4 4 'ENGLISH'. - Select "ORIGINAL" if you want the default soundtrack language to be the original language the disc is recorded in. - Select "OTHERS" if the language you want is not listed. 5 Press the ENTER button. - ENGLISH is selected and the screen returns to SETUP MENU Using the Subtitle Language With no disc playing or stop, press the SETUP button. SUBTITLE LANGUAGE 1 Automat English Français Deutsch Español Italiano Nederlar Others Use the UP/DOWN button to select SUB-2 TITLE. 3 Press the ENTER button. **C**RETURN Use the UP/DOWN button to select 4 'ENGLISH'. - Select "AUTOMATIC" if you want the subtitle language to NOTE be the same as the language selected as the audio If the selected language is preference. not recorded on the disc, Select "OTHERS" if the language you want is not listed. Some discs may not contain the language you select as your initial language; in that case the disc will the original pre-recorded language is selected. use its original language setting. How to make the SETUP

# **5** Press the ENTER button.

MENU disappear or return to menu screen

during set up; Press RETURN button.

- ENGLISH is selected and the screen returns to SETUP MENU

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CHANGING SETUP MENU

## rental Control

works in conjunction with DVDs that have helps you control the types of DVDs that up to 8 rating levels on a disc.

- With no disc playing or stop, press SETUP. The Setup Menu screen appears.
- Use UP/DOWN to select Parental. Press ENTER. The Parental Control screen appears.
- Use LEFT/RIGHT to select Yes if you want to use a password. Press ENTER. The Enter Password screen appears.
- Enter your password. The Re-enter Password screen appears to confirm the password. Enter your password again. The Parental Control screen appears.

#### About the Rating Level ;

The Rating Level will work only when Use Password is set to Yes. To unlock the player, use LEFT/RIGHT to select No. Use UP/DOWN to select Rating

- No. Use UP/DOWN to select Rating level. Press ENTER.
  Use UP/DOWN to select the level(e.g. Level 6) and press ENTER. The disc that contains Level 7 will now not play.
  To cancel the rating level, use LEFT/RIGHT to select No in Use Paseword
- Password.

#### About the Change Password ;

- Use UP/DOWN to select Change Password. The Change Password screen appears.
- Enter your new password. Re-enter the new password again.

#### disappear or return to menu screen during set up;

d, see Forget Password in the Troubleshooting Guide.

## Setting Up the Audio Options

AUDIO OPTIONS 1 Digital Output PCM	1 With no disc playing or stop, press the SETUP button.
2 MPEG-2 Digital Out PCM 3 DTS Off 4 Dynamic Compression On 5 2X Scan Audio Off	2 Use the UP/DOWN button to select AUDIO OPTIONS. Then press the ENTER button.
6 Speaker setup	3 Use the UP/DOWN button to select the desired item. Then press the LEFT/RIGHT button.
	<ul> <li>DOLBY DIGITAL OUT / @ MPEG-2 DIGITAL OUT</li> <li>PCM : Converts to PCM(2CH) 48kHz/16Bit audio. Select PCM when using the Analog Audio Outputs.</li> <li>BITSTREAM : Converts to Dolby Digital BITSTREAM - 5.1CH (in case of MPEG-2, 7.1CH). Select BITSTREAM when using the Digital Audio Output.</li> </ul>
	NOTE : Be sure to select the correct Digital Output or no audio will be heard.
	<ul> <li>DTS</li> <li>ON : Outputs DTS BITSTREAM via digital output only. Select DTS when connecting to a DTS DECODER.</li> <li>OFF : Doesn't output digital signal.</li> </ul>
	<ul> <li>DYNAMIC COMPRESSION</li> <li>ON : To select dynamic compression.</li> <li>OFF : To select the standard range.</li> </ul>
NOTE • How to make the SETUP MENU disappear or return to menu screen	<ul> <li>2X SCAN AUDIO</li> <li>ON : Turns 2X audio on.</li> <li>OFF : Turns 2X audio off.</li> <li>Though 2X SCAN AUDIO is ON in the SETUP MENU, no sound will be heard on discs which are recorded with LPCM, DTS or MPEG-2.</li> </ul>
during set up; Press RETURN button.	SPEAKER SETUP

- · Certain audio features of this product manufactured under a license from Desper Products, Inc.  $\ensuremath{\mathsf{Spatializer}}^{\ensuremath{\mathbb{R}}}$  and circle-in-square device are trademarks owned by Desper Products. Inc.
- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. ©1992-1997 Dolby Laboratories Inc. All rights reserved.
- "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

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CHANGING SETUP MENU

## peaker Setup

- Press the SETUP button in play or stop mode.
- Press the UP/DOWN button to select AUDIO OPTIONS. Then press the ENTER button.
- Use the UP/DOWN button to select SPEAK-ER SETUP. Then press the ENTER button.
- Use the UP/DOWN or LEFT/RIGHT button to select the desired item. Then press the ENTER button.

#### g up SPEAKER MODE

- u have connected the system to a speaker with low frequencies of Iz or below, select 'Found(Large illustration)'.
- have connected the system to a speaker without low frequencies of Iz or below, select 'Found(Small illustration)'. If you don't connect a woofer, always select 'Found(Large illustration)' for the Front
- akers(L/R). n you don't have a particular speaker connected, select 'Not found(No ration visible)'.

#### g up DELAY TIME

- n 5.1CH Surround Sound is played, you can enjoy the best sound if tistance between you and each speaker is the same. You can set y Time in the Center/Surround Speaker to customize the sound to the istic of your room.
- ng CENTER SPEAKER
- e distance of Dc is equal to or longer than the distance of Df in the left e, set the mode as Oms. Otherwise, change the setting according to able below.

(A) = Df - D	с	
Distance of	(A)(in)	Setting(ms)
1.64	1.3	
3.28	2.6	
4.92	3.9	
6.56	5.3	

0.20	2.0
4.92	3.9
6.56	5.3
SURROUND	SPEAKERS

ng distance of Df is equal to the distance of Ds in the above, set the e as Oms. Otherwise, change the setting according to the table on the

(B) = Df - DsDistance of (B)(in) Setting(ms) 6.56 5.3 13.12 10.6 19.68 15.9

#### g up TEST

- test output signals come clockwise starting from the Front aker(L). Adjust Channel Balance to match to the volume of test als memorized in the system.
- NT(L) CENTER FRONT(R) SUBWOOFER ROUND(R) - SURROUND(L)

Setting Up the	Display	Options
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With no disc playing or stop, press the SETUP button. DISPLAY OPTIONS 1 4:3 L-Box Auto On Autodim Off Off TV Aspect Still Mode Screen Mess Front Display Use the UP/DOWN button to select DIS-2 PLAY OPTIONS. Then press the ENTER button. Black Level Quasi-PAL Use the UP/DOWN button to select the desired item. Then press the LEFT/RIGHT button. 3 RETURN TV ASPECT 4:3 LETTER BOX : Select when you want to see the total 16:9 ratio screen DVD supplies, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen. 2 4:3 PAN-SCAN : Select this for conventional size TVs when you want to see the central portion of the 16:9 screen. (Extreme left and right side of movie picture will be cut off.) 16:9 WIDE : You can view the full 16:9 picture on your widescreen TV. **9** STILL MODE 1 FIELD : Select this feature when the screen shakes in the AUTO mode. PRAME : Select this feature when you want to see small letters more clearly in the AUTO mode. 3 AUTO : When selecting AUTO, FIELD/FRAME mode will be automatically converted. SCREEN MESSAGES Use to turn on-screen messages on or off. FRONT DISPLAY CHANGING SETUP MENU Adjust the brightness of the unit's front panel display. BRIGHT : Makes the Front Panel Display bright. 2 DIM : Makes the Front Panel Display dim. 3 AUTO DIM : Makes the Front Panel Display dim automatically when playing a DVD. BLACK LEVEL NOTE Adjusts the brightness of the screen. · How to make the SETUP MENU disappear or O QUASI-PAL Depending on a disc, you can play a NTSC DVD disc by  $\ensuremath{\mathsf{QUASI}}\xspace{-}\ensuremath{\mathsf{PAL}}\xspace$  mode. return to menu screen during set up; Press RETURN button.

## vith the Remote

ontrol most TVs. To program the remote, use the

	TV Codes
CODE	BRAND
0	SAMSUNG D
	SAMSUNG F. LG A. LOEWE. PHILPS. FINLUX A.
1	YOKO, LOEWE OPTA A, MITSUBISHI A.
	PHONOLA A. RADIOLA A.SCHNEIDER
2	SAMSUNG A
3	SAMSUNG B
4	SAMSUNG C
5	SAMSUNG E
6	TOSHIBAA
7	PANASONIC A
8	GRUNDIG A. BLAUPUNKT, SIEMENS
9	SHARP A
SETUP	HITACHI A
DISPLAY	SANYO A, AKAI, FISHER
OPEN/CLOSE	HITACH B. SABA A. THOMSON A. NORDMENDE A
	THOMSON B. SABA B. TELEFUNKEN A. NORDMENDE
AUDIO	BRANDT, FERGUSON, PIONEER A, TELEAVIA, HITACH
SUB TITLE	SONY A
DVD POWER	TOSHIBA B. SANYO B. SHARP B. SONY B. MITSUBISHI
ANGLE	TOSHIBA C, GRUNDIG B, FINLUX B
TOP MENU	TOSHIBA D
MENU	TOSHIBA E
RETURN	PHILIPS A, PHONOLA B, RADIOLA B
REV SEARCH	TOSHIBA F. GRUNDIG C. CGE. IMPERIAL MIVAR
	SABA C, BANG&OLUFSEN, LOEWE OPTA B, BRIONVEO
REPEAT	FINLUX C. FORMENTI, PHILIPS B. SINGER, SINUDYN
	METZ, WEGA, PHONOLA C, RADIOMARELLI
	NOKIA, PANASONIC B, SABA D, PIONEER B
FWD SEARCH	REX. SELECO, SALORA
	HITACHI D. NORDMENDE C. PANASONIC C.THOMSON
BACK SKIP	SABA E, TELEFUNKEN B, CONTINENTAL EDISON
PLAY/PAUSE	PANASONIC D
NEXT SKIP	PANASONIC E
STOP	PANASONIC F
STEP	TELEFUNKEN C
CLEAR	MIVAL
MODE	LG B
BOOKMARK	.IVC

 ${\it 4} \hspace{0.1 cm} {}^{\hspace{0.1 cm} {\rm If the TV turns off, setup is complete.} }$ 

Enter other codes of the same brand if the first code does not work.

5 To operate the TV, use the "TV Function Buttons" described on page 13.

NOTE

The remote may not be able to control every model TV of the brands listed.

## **T**roubleshooting Guide

Before requesting service (troubleshooting)

Problem	Action	Page
No operations can be performed with remote.	<ul> <li>Check the batteries in the remote. May need replacing.</li> <li>Operate the remote control at a distance of no more than 20 feet.</li> <li>Remove batteries and hold down one or more buttons for several minutes to drain the microprocessor inside the remote to reset it. Reinstall batteries and try remote again.</li> </ul>	P4
Disc does not play.	Ensure that the disc is installed with the label side facing up.     Check the region number of the DVD.     This player cannot play CD-ROMs, DVD-ROMs, CD-R, etc.     Insert a DVD, a VIDEO-CD or a CD.	P8
5.1 channel sound is not being reproduced.	<ul> <li>5.1 channel sound is reproduced only when the following conditions are met.:</li> <li>1)The DVD player is connected with the proper amplifier 2)The disc is recorded with 5.1 channel sound.</li> <li>Check whether the disc being played has the "Dolby 5.1 ch" mark on the outside.</li> <li>Check if your audio system is connected and working property.</li> </ul>	P14-15
The Øicon appears on screen.	The features or action cannot be completed at this time because:     1. The DVD's software restricts it.     2. The DVD's software doesn't support the feature (e.g., angles).     3. The feature is not available at the moment.     4. You've requested a title or chapter number or search time that is out of rance.	P18-21 P24-28
Disc Menu doesn't appear.	Check if the disc has a Menu.	P23-24
Playback mode differs from the Setup Menu selection.	<ul> <li>Some of the functions selected in the Setup Menu may not work properly if the disc is not encoded with the correspond- ing function.</li> </ul>	P31-37
The screen ratio can- not be changed.	The Screen Ratio is fixed on your DVDs.	P37
No audio.	<ul> <li>Make sure you have selected the correct Digital Output in the Audio Options Menu.</li> </ul>	P35
Forgot password	<ul> <li>Press power on from a cold start with no disc in the unit. Press the STOP and PLAY buttons simultaneously on the front panel for three seconds. The Select Menu Language display will appear. Select the aleguage button. Press the SETUP button on the remote control to select the Parental Mode. The Parental Mode is now unlocked as indicated on the display. Press the DOWN button to select Parental. Press ENTER and the Create Password display will appear. You can now set your rating level and change your password to a new number.</li> </ul>	P34
If you experience other problems.	<ul> <li>Go to the contents and find the section of the instruction book that contains the explanations regarding the current problem, and follow the procedure once again.</li> <li>If the problem still cannot be solved, please contact your nearest authorized service center.</li> </ul>	

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REFERENCE

ange ige	AC 110-240 V, 50/60 Hz 18 W 6.8 lbs W 16.9 in x D 11.0 in x H 3.5 in +41°F to +95°F 10 % to 75 %
ISC)	Reading Speed : 11.45 ft/sec. Approx. Play Time (Single Sided, Single Layer Disc) : 135 min. Reading Speed : 3.9 to 4.6 ft/sec. Maximum Play Time : 74 min. Reading Speed : 3.9 to 4.6 ft/sec. Maximum Play Time : 20 min. Reading Speed : 3.9 to 4.6 ft/sec. Maximum Play Time : 74 min. (Video + Audio)
	2 channel : 1.0 Vp-p (75 Ω load) Y : 1.0 Vp-p (75 Ω load) Pr : 0.70 Vp-p (75 Ω load) Pb : 0.70 Vp-p (75 Ω load) Luminance Signal : 1.0 Vp-p (75 Ω load) Chrominance Signal : 0.286 Vp-p (75 Ω load)
se	L(1/L), R(2/R) 48 kHz Sampling : 4 Hz to 22 kHz 96 kHz Sampling : 4 Hz to 44 kHz 110 dB 100 dB 0.005 %
	*: Nominal specification

ves the right to change the specifications without

mate.