USER'S MANUAL

DVD-2500

MULTI-SUBTITLE LANGUAGES FUNCTION
MULTI AUDIO LANGUAGES FUNCTION
MULTI-ANGLE FUNCTION
PARENTAL CONTROL

DIGITAL MOBILE DVD / Mp3 / CD-R / RW
WITH WIRELESS REMOTE CONTROL

BOSS®

AUDIO SYSTEMS
Congratulations on your purchase of a BOSS Audio Systems DVD Player. This product has been designed and built to deliver the highest quality video reproduction with CD sound. We are sure you'll enjoy watching your favorite movies with this component as a part of your multimedia. For best results please consult a professional mobile electronics installer for application advice or troubleshooting. To guarantee top performance we recommend using The BOSS Link installation accessories such as RCA interconnects, power cables, and speaker wire. Thank you for choosing BOSS Audio Systems products for your mobile entertainment system. We can't change the world, but we can make it sound and look better.
FEATURES

Compatible with PAL DVD (Video CD) and NTSC DVD (Video CD)
This player can play discs recorded in either PAL or NTSC format.

• A single LSI chip now integrates all major DVD playback circuit functions including MPEG2 decoder, video D/A converter, and audio decoders.

• L/R stereo analog audio outputs for connection to existing head unit aux inputs. Video output is composite video.

• Supplied remote handles multi-function software (multi-language audio-track/subtitle, multi-angle, multi-story, etc.), plus all basic functions.

USE THIS PRODUCT SAFELY

When Driving
Keep the volume level low enough to be aware of road and traffic conditions.

When Car Washing
Do not expose the product to water or excessive moisture. This could cause electrical shorts, fire or other damage.

When Parked
Parking in direct sunlight can produce very high temperatures inside your vehicle. Give the interior a chance to cool down before starting playback.

Use the Proper Power Supply
This product is designed to operate with a 12 volt DC, negative ground battery system (the regular system in a North American car).

Protect the Disc Mechanism
Avoid inserting any foreign objects into the slot of this player. Failure to observe this may cause malfunction due to the precise mechanism of this unit.

Use Authorized Service Centres
Do not attempt to disassemble or adjust this precision product. Please refer to the Service Centre list included with this product for service assistance.

For Installation
The unit should be installed in a horizontal position with the front end up at a convenient angle, but not more than 30°.
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SAFETY INFORMATION

CAUTION:
MOBILE DVD PLAYER IS A CLASS I LASER PRODUCT. HOWEVER THIS MOBILE DVD PLAYER USES A VISIBLE/INVISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE MOBILE DVD PLAYER CORRECTLY AS INSTRUCTED.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING:
• TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.
• TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE ONLY THE RECOMMENDED ACCESSORIES.
• THIS DEVICE IS INTENDED FOR CONTINUOUS OPERATION.

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

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.
Disc formats supported by this player

- **DVD**
  - 12 cm disc
  - (Single-sided disc only)

- **Video CD**
  - 12 cm disc

- **CD**
  - 12 cm disc

- **MP3**
  - 12 cm disc

**Discs which cannot be played with this player**

- DVD-ROM
- DVD-R/DVD-RAM
- CDV
- CD-G

**Handling and Cleaning**

- Dirt, dust, scratches and warping disc will cause misoperation.
- Do not place stickers or make scratches on discs.
- Do not warp discs.
- A disc should be kept in its case when not in use to prevent damage.
- Do not place discs in the following places:
  1. Direct sunlight
  2. Dirty, dusty and damp areas
  3. Near car heaters
  4. On the seats or dashboard

**Disc Cleaning**

Use a dry soft cloth to wipe the surface. If the disc is quite dirty, use a soft cloth slightly moistened with isopropyl (rubbing) alcohol. Never use solvents such as benzine, thinner or conventional record cleaners as they may mar the surface of the disc.

**Note:**

A disc may become somewhat scratched (although not enough to make it unplayable) depending on how it is handled and the conditions of exposure.

**Preparing New Discs with Rough Spots**

A new disc may have rough edges on its inside and outside edges. If a disc with rough edges is used, the proper setting will not be performed and the player will not play the disc. Therefore, remove the rough edges in advance by using a ball point pen or pencil as shown on the right. To remove the rough edges, press the side of the pen or pencil against the inside and outside edges of the disc.
**Note:**
1. First remove the two transport screws. Next, attach a mounting bracket on each side of the player using the supplied screws.
2. When attaching the brackets, the mounting position of the player is determined by which pair of screw holes you choose. Select holes 1 and 3 or 2 and 4 depending on which position best suits your application.
ELECTRICAL CONNECTIONS

DVD PLAYER

AC/DC ADAPTOR
(OPTIONAL)

CIGARETTE LIGHTER

DC 12V IN - DC 12V OUT
REMOTE
DIGITAL AUDIO
A/V OUT
L/R VIDEO
WHITE
RED
YELLOW

REMOTE CONTROL RECEIVER

VIDEO OUT
AUDIO R OUT
AUDIO L OUT
1. **POWER**  
   Press POWER to turn the unit ON or OFF

2. **0 - 9**  
   Numeric buttons

3. **GOTO**  
   Disc search button, cooperatively used with numeric buttons

4. **■**  
   Press to stop playback

5. **<\>/\>**  
   Press \> to start forward rapidly & < to reverse rapidly

6. **▲/▼**  
   Press ▲ to skip to the next track & press ▼ to skip back one track
   In MENU mode these buttons move the cursor

7. **SUBTITLE**  
   Changes the SUBTITLE language on multi-subtitle language DVD disc

8. **SETUP**  
   Display the SETUP menu

9. **TITLE**  
   Display the TITLE menu that is stored in DVD disc

10. **DISPLAY**  
    Display statistical disc information during playback

11. **REPEAT**  
    Switch the Repeat mode of DVD/VCD/CD disc

12. **►II**  
    Press once to pause playback. Press again to resume playback.

13. **SLOW**  
    Selects forward/reverse slow motion playback

14. **ENTER**  
    Confirm the Track/Chapter selected with the number key or
    selected with the cursor buttons on TV screen

15. **AUDIO**  
    Changes the AUDIO soundtrack on multi-audio soundtrack DVD disc. Changing of the sound mode of the VCD/CD disc

16. **ANGLE**  
    Changes the view angle on multi-angle DVD disc

17. **MENU**  
    Display the root menu that is stored on the DVD disc
    Selects between PBC ON and PBC OFF on a VCD
Preparing the Remote Control

Inserting the Batteries
1. Open the battery compartment cover.
2. Insert the new batteries (two AAA size). Make sure that the positive and negative terminals of the batteries are oriented indicated.
3. Close the cover

Using the Remote Control
Point the remote control toward the front of the player (at the remote receiver “eye”).
Operation angle: About ± 30 degree in each the direction of the front of the IR mark.
To prevent damage to the unit, be sure to follow the connection diagram (page 7).

Loading a DVD/VCD/CD Disc
1. Turn the ignition to the accessory (ACC) position.
2. Press the POWER button (1).
3. Insert the disc into the disc slot (2) with the label side of the disc facing up.
4. The player starts playback automatically.

Ejecting a Disc
Press ▲ (EJECT) button (3) to eject the disc.
**BASIC OPERATION**

**Stopping Play**
- Press the ■ (stop) button to stop playback. Press the ► II (Play) button for playback.
- Press ■ (Stop) button twice, it will stop the playback and go back to initial Track/Chapter.

**Rapid Forward/Reverse**
Press ◄FF &◄ REW during play. Each time the button is pressed the speed changes (depending on the disc format) as follows:

- **DVD:**
  - Normal Playback ► 2X ► 4X ► 6X ► 8X

- **VCD/CD:**
  - Normal Playback ► 1X ► 2X ► 3X ► 4X

- **MP3:**
  - Normal Playback ► 2X

**Skipping Track**
Press SKIP ▲/▼ on the remote handset or ◄/► buttons on the front panel during playback. Press ▲ or ► to skip to the next track, and ▼ or ◄ to back one track. Note: For some VCD 2.0 discs (PBC-playback control), ▲/▼ and ◄/► buttons may be unavailable.

**Slow Motion Playback**
Press the slow button during playback. Each time the button is pressed the changes (depending on the disc format) as follows:

- **DVD:**
  - Normal Playback ► 2X ► 4X ► 6X ► 8X
  - SR 8X ◄ SR 4X ◄ SR 2X

- **VCD:**
  - Normal Playback ► SF 1X ► SF 2X ► SF 4X ► SF 8X
  - Step BWD ◄ SF 3X

**Pause (still picture)**
Pressing ► II during playback will stop play temporary.

Return to normal playback by pressing ► II again.

**Repeat**
Press the REPEAT button to select repeat modes as follows:

- **DVD:**
  - Press the REPEAT button to select repeat mode as follow.
  - [CHAPTER REPEAT ON ► TITLE REPEAT ON ► REPEAT OFF]

- **VCD/CD:**
  - Press the REPEAT button to select repeat mode as follow.
  - [REP-ONE ► REP-ALL ► REPEAT OFF]

1. REP-ONE mode continuously repeats the current track.
2. In REP-ALL mode all tracks on the disc are repeated.
3. When playback of the last track is completed the unit stops and the elapsed time is displayed.
   - In REPEAT OFF mode REP-ONE and REP-ALL are not displayed.
4. REPEAT function does not apply to VCD 2.0 (with PBC).

**Reset**
Reset button is placed on the front panel and must be activated with a ball point pen or thin metal object. Reset button is to be activated for the following reasons:
- Initial installation of the unit when all wiring is completed.
- All the function buttons do not operate.
- Error symbol on the display.

**Remote Sensor (IR)**
Point the remote handset to the remote sensor. Receive the signal from remote handset.

**Tuning the player on/off**
Press the ◄ (POWER) button on front of panel or press ◄ (POWER) button on remote control to turn the player on or off.
BASIC OPERATION

On-Screen Display Function
Press the DISPLAY button during playback to display the contents of the current disc on the screen.
Example:
DVD:
(1) Press DISPLAY for the first time:

TITLE 01/03 CHAPTER 002/025
00:02:25

Title Number, Total Title Number, Chapter Number, Total Chapter Number of this Title of the disc currently being played will be shown on the screen, along with the elapsed time.

(2) Press DISPLAY for the second time:

TITLE REMAIN
01:46:58

(3) Press DISPLAY for the third time:

CHAPTER ELAPSED
00:00:24

(4) Press DISPLAY for the fourth time:

CHAPTER REMAIN
00:01:39

(5) Press DISPLAY for the fifth time:
The message on the screen will be cleared.

MP3:
Each time DISPLAY is pressed, the message displayed on screen changes as follows:

Multi-audio Language Function
DVD:
Press AUDIO during playback. Each time the button is pressed, number of the audio soundtrack language changes on sequential order.
Notes:
- The language number is different according to the disc.
- Some disc only contain one language soundtrack.
- When no different language soundtrack is available will be displayed in the top left corner of the screen.

VCD:
Press AUDIO during playback. It is possible to switch the sound between monaural and stereo sound.

---

(2) Press DISPLAY for the second time:

SINGLE REMAIN
00:03:15

TRACK 01

(3) Press DISPLAY for the third time:

TOTAL ELAPSED
00:00:25

TRACK 01

(4) Press DISPLAY for the fourth time:

TOTAL REMAIN
00:40:35

TRACK 01

(5) Press DISPLAY for the fifth time:
The message on the screen will be cleared.

Example:
DVD:

(1) Press DISPLAY for the first time:

TITLE 01/03 CHAPTER 002/025
00:02:25

(2) Press DISPLAY for the second time:

TITLE REMAIN
01:46:58

(3) Press DISPLAY for the third time:

CHAPTER ELAPSED
00:00:24

(4) Press DISPLAY for the fourth time:

CHAPTER REMAIN
00:01:39

(5) Press DISPLAY for the fifth time:
The message on the screen will be cleared.

Video CD/SVCD/CD:

(1) Press DISPLAY for the first time:

SINGLE ELAPSED
00:00:25

TRACK 01

---

LEFT VOCAL → RIGHT VOCAL → MONO LEFT
STEREO ← MONO RIGHT
BASIC OPERATION

CD:
Press AUDIO during playback.
It is possible to switch the sound between monaural and stereo sound.

MENU Function

DVD:
Press MENU button while the disc is playing and the disc menu will be displayed. You can navigate with the remote control navigation keys and select a feature with the ENTER key.

VCD:
Press MENU button while the disc is playing, you can switch between “PBC on” and “PBC off” mode.

TITLE Menu Function
(For DVD only)
If the DVD has multiple titles recorded on the disc. It can select preferred title from the title menu to start playback.
1. Press TITLE during playback.
   The title menu is display.
2. Press the cursor button show in TV screen, select preferred title by the cursor button and confirmed by ENTER key.

Multi-subtitle Language Function
(For DVD only)
Press SUBTITLE during playback.
Each time the button is pressed, number of the subtitle language changes in sequential order.
Notes:
- The language number is different according to the disc.
- Some discs only contain one language soundtrack.
- When no different language soundtrack are recorded, will be display at screen left top corner.

Multi-angle Function
(For DVD only)
Press ANGLE during playback.
Each time the button is pressed, number of the angle changes in sequential order.
Notes:
- The angle number is different according to the disc.
- The function only work for discs having scenes recorded at different angles.
- When no different angles are available, will be displayed in the top left corner of the screen.
MP3 Disc Play
MP3 disc is playing as the format of FOLDER.
For example:

Use ▲▼◄► to select the item or folder, then press ENTER button.
Pressing REPEAT button repeatedly can select three kinds of repeat play mode.
REP-ONE:
Play the same song over and over again.
FOLDER REPEAT:
Play all songs in the current directory in sequence, over and over again.
FOLDER:
Play all songs in the current directory once.
When select PLAY MODE, press ▼ to change between the following mode:
SINGLE ► REP-ONE ► FOLDER ► FOLDER REP ►
DISC SCAN ► DISC ► DISC REP ► RANDOM ►
SHUFFLE ON ► PROGRAM PXXX

In the playback, use ▲ or ▼ to skip an item ahead or back.
◄►: Rapid reverse, ►►: Rapid advance
Note: The FOLDER cannot be selected during playing. It can be selected after ■ (Stop) button pressed.
1. Press SETUP in the stop mode. (Press the stop button twice to ensure the player is in the STOP mode).

2. The initial SETUP menu is displayed.

3. Select the preferred item by using the ▲/▼ buttons.

4. Press ENTER buttons.
   a. GENERAL SETUP
      This setup page includes all the item of TV display & audio output feature. The detail please refer to GENERAL SETUP MENU.
   b. SPEAKER SETUP
      This is to activate the audio output from DOLBY AC3 5.1 DOWNMIX to 2 channel mode. Please refer to SPEAKER SETUP MENU.
   c. AUDIO SETUP
      This setup page includes all the items for AUDIO. Please refer to AUDIO SETUP MENU.
   d. PREFERENCE SETUP
      This setup page includes all the configuration of support feature. The detail please refer to PREFERENCES SETUP MENU.

--- TV display setup ---
This is to select the appropriate TV aspect (4:3 or 16:9) according to the connected TV set.

- **Normal/PS (For 4:3 TV)**
  Played back in the PAN & SCAN style.
  (If connected to wide-screen TV, the left and right edges are cut off.)

- **Normal/LB (For 4:3 TV)**
  Played back in letterbox style.
  (If connected to wide-screen TV, black bands appear at top and bottom of the screen.)

- **Wide (For 16:9 TV)**
  Select when a wide-screen TV set is connected.
PIC mode setup
Select AUTO, the player PIC mode will depend on DVD disc. Select HI-RES format for best image resolution. Select N-FLICKER format on format on image or picture under noise affect.

ANGLE MARK display setup
If it is set to ON, when the multi-angle DVD disc is playing, (the angle mark) will appears on the screen; if is set to OFF, the mark will not appear.

OSD LANG type setup
Select the preferred OSD language by using the ▲ / ▼ buttons.

CAPTIONS setup
Activate the CAPTIONS feature by selecting ON. And release this feature by selecting OFF.
**SETUP**

--- GENERAL PAGE ---

- **TV DISPLAY**
- **PIC MODE**
- **ANGLE MARK**
- **OSD LANG**
- **CAPTIONS**
- **SCR SAVER**
  - ON
  - OFF

**MAIN PAGE**

--- SPEAKER SETUP ---

**DOWNMIX**
- **LT/RT**
- **STEREO**

**MAIN PAGE**

--- AUDIO SETUP ---

**AUDIO OUT**
- **ANALOG**
- **SPDIF/RAW**
- **SPDIF/PCM**

**OP MODE**
- **LINE MODE**
- **RF REMOD**

**MAIN PAGE**

--- GENERAL PAGE ---

**SCR SAVER**
Select the SCR SAVER output ON/OFF.

**SPEAKER SETUP**

--- SPEAKER SETUP PAGE ---

- **DOWNMIX**
  - **LT/RT**
  - **STEREO**

**MAIN PAGE**

--- AUDIO SETUP ---

**OP MODE**
There are two operating modes for the Dolby Digital decoder: LINE OUT and RF REMOD.

This is to activate the audio output from DOLBY AC3 5.1 DOWNMIX to 2 channel mode. Select the preferred SPEAKER connection by using the cursor buttons.
- Select the LT/RT to activate the Dolby surround compatible output.
- Select the STEREO to activate simple stereo mode.

This is to activate the audio output from ANALOG mode to SPDIFF/RAW mode to SPDIFF/PCM mode.
**Dynamic Range Control**
Select DRC and adjust the dynamic range of a Dolby Digital encoded program. There are 8 steps between full compression and compression off.

**LPCM OUTPUT**
Select the LPCM OUTPUT between LPCM 48K and LPCM 96K.

**TV type setup**
This player can play discs recorded in either PAL or NTSC format. Select NTSC format, when you connected to NTSC TV. Select PAL format, when you connected to PAL TV. Select MULTI format, the player TV output format will according to the DVD disc format.

**AUDIO language setup**
Select the preferred AUDIO soundtrack by using the cursor buttons.
--- PREFERENCES PAGE ---

**SUBTITLE language setup**
Select the preferred SUBTITLE language by using the cursor buttons.

--- PREFERENCES PAGE ---

**DISC MENU language setup**
Select the preferred DISC MENU language by using the cursor buttons.

--- PREFERENCES PAGE ---

**PARENTAL Controls**
Select desired parental guidance using the cursor buttons and confirm by pressing ENTER.

--- PREFERENCES PAGE ---

**PASSWORD**
Select change and press ENTER button. Type the old password (The initial factory code is 3308) and key in a new four character password of your choice. Type in this password again to confirm.
SETUP

--- PREFERENCES PAGE ---

**DEFAULTS**
Press the RESET button to return to the initial factory settings.

**SMART NAV**
In this item, you can select NO MENU mode or WITH MENU mode.

### DEFAULTS TABLE

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<th>Normal/PS</th>
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<td>Angle Mark</td>
<td>ON</td>
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<td>OSD Language</td>
<td>English</td>
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<td>Captions</td>
<td>OFF</td>
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<tr>
<td>SCR Saver</td>
<td>OFF</td>
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<td>Speaker Setup</td>
<td>Downmix</td>
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<td></td>
<td>Password</td>
<td>3308</td>
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<td>Smart NAV</td>
<td>With Menu</td>
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### SPECIFICATIONS

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<th>Specification</th>
<th>Details</th>
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<td>Supply Voltage</td>
<td>12V DC (11V-15V), test voltage 14.4V, negative ground</td>
</tr>
<tr>
<td>Chassis Dimensions</td>
<td>160 (W) x 156 (D) x 51 (H) mm, 6.3” x 6.14” x 2”</td>
</tr>
<tr>
<td>Weight</td>
<td>1.1 kg, 2.2 lb</td>
</tr>
<tr>
<td>Current Consumption</td>
<td>Less than 2A</td>
</tr>
<tr>
<td>Signal System</td>
<td>Compositive video 1.0Vp-p 75Ω</td>
</tr>
<tr>
<td>Discs Played</td>
<td>(1) DVD-VIDEO Disc</td>
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<tr>
<td></td>
<td>5” (12 cm) single-sided, single-layer</td>
</tr>
<tr>
<td></td>
<td>5” (12 cm) single-sided, double-layer</td>
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<tr>
<td></td>
<td>(2) Compact Disc (CD-DA, VIDEO CD)</td>
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<tr>
<td></td>
<td>5” (12cm) disc</td>
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<tr>
<td>Audio Output Level</td>
<td>600Ω (2 ch 2.0 Vrms)</td>
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<td>Audio Signal Output</td>
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<tr>
<td>Characteristics</td>
<td>(1) Frequency Response 20 Hz - 20 KHz</td>
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<td>(2) S/N Ratio 90 dB (JIS)</td>
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<tr>
<td></td>
<td>(3) Wow and Flutter Below measurable limits</td>
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</tbody>
</table>

**Note:**
Specifications and design are subject to modification, without notice, due to improvements in technology.