COMPACT COMPONENT SYSTEM

EX-A1
Consists of CA-EXA1 and SP-EXA1

INSTRUCTIONS

For Customer Use:
Enter below the Model No. and Serial No. which are located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. ____________________________
Serial No. ____________________________

LVT1095-002B

[Model Image]
Warnings, cautions and others

CAUTION
To reduce the risk of electrical shocks, fire, etc.:
1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

CAUTION — O'H button!
Disconnect the mains plug to shut the power off completely (the STANDBY lamp goes off).
The O'H button in any position does not disconnect the mains line.
- When the system is on standby, the STANDBY lamp lights red.
- When the system is turned on, the STANDBY lamp goes off.
The power can be remote controlled.

CAUTION
- Do not block the ventilation openings or holes.
  (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
- Do not place any naked flame sources, such as lighted candles, on the apparatus.
- When discarding batteries, environmental problems must be considered and local rules or laws governing the disposal of these batteries must be followed strictly.
- Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

IMPORTANT FOR LASER PRODUCTS
1. CLASS 1 LASER PRODUCT
2. CAUTION: Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. CAUTION: Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED INSIDE THE UNIT.

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

INFORMATION
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 Rules. 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.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FOR CANADA
CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.
ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSER JUSQU’AU FOND.

FOR CANADA
THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS B LIMITS FOR RADIO NOISE EMISSIONS FROM DIGITAL APPARATUS AS SET OUT IN THE INTERFERENCE-CAUSING EQUIPMENT STANDARD ENTITLED “DIGITAL APPARATUS”, ICES-003 OF THE DEPARTMENT OF COMMUNICATIONS.
CET APPAREIL NUMÉRIQUE RESPECTE LES LIMITES DE BRUITS RADIOÉLECTRIQUES APPLICABLES AUX APPAREILS NUMÉRIQUES DE CLASSE B PRESCRITES DANS LA NORME SUR LE MATÉRIEL BROUILLARD: “APPAREILS NUMÉRIQUES”, NMB-003 EDICTEE PAR LE MINISTRE DES COMMUNICATIONS.

Note to CATV system installer:
This reminder is provided to call the CATV system installer’s attention to Section 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.
Table of contents

Introduction
Warnings, cautions and others....................G-1
Special cautions ..............................................2
About discs......................................................3
Description of parts .........................................5

Getting started
Using the remote control .................................6
Putting the batteries in the remote control....... 6
Operating the TV using the remote control....... 7
Connecting up .................................................8

Basic operations
Playing discs .................................................12
Playback ........................................................... 12
To switch the display ........................................ 13
Select what you want to play by using
the number buttons....................................... 14
To stop playback............................................... 14
To pause playback............................................. 14
To advance picture frame-by-frame.................. 14
Fast reverse/Fast forward search ..................... 14
Playing back from a position 10 seconds
before (One Touch Replay) ......................... 15
Slow Motion Playback.................................... 15
Skip to the beginning of the selection .......... 15
To change the brightness of the
display window (DIMMER)............................ 16
Adjusting the volume ........................................ 16
Adjusting sound quality..................................... 16
Turning off the sound temporarily (MUTING) ... 16

Advanced operations
Playing MP3 and JPEG discs......................... 16
Resume Playback ........................................... 18
Select the scene to be played ......................... 19
Program Playback/Random Playback............. 20
Repeat Playback ............................................. 22
Other convenient functions ......................... 24
Selecting the subtitles................................... 24
Selecting the audio language ....................... 24
Selecting a view angle .................................. 24
Enlarging the picture (ZOOM) ...................... 25
Adjusting the picture quality (VFP) .............. 25
Creating realistic sound
(VIRTUAL SURROUND)................................ 26
Adjusting playback level (DVD LEVEL)......... 26
Enjoying better pictures (PROGRESSIVE)....... 26

Functions specific to DVD AUDIO .............. 27
Playing the Bonus Group............................ 27
Browsable Still Pictures (B.S.P.)................. 27
Using the menu bar .................................... 28
Preferences .................................................. 29
Country/Area codes..................................... 31

Listening to radio
Listening to a radio broadcast .................... 32
Tuning in to a preset station ...................... 33

Convenient functions
Listening to the sound of
other audio device.................................. 34
Auto Standby................................................. 34
Sleep Timer ................................................. 35
Tray Lock..................................................... 35
Using AV COMPU LINK ................................. 36

Reference
Troubleshooting ........................................... 37
Language codes ............................................ 38
Specifications .............................................. 39

How to read this manual
- Operations are described by mainly using the remote control buttons. If there are the same marks on the main unit, the buttons on the main unit can also be used.
- The following marks tell you for which type of the discs the operation can be made.
  - "DVD" is an abbreviation of "Digital Versatile Disc".
  - "DVD AUDIO" is an abbreviation of "DVD Audio".
  - "DVD VIDEO" is an abbreviation of "DVD Video".
  - "MP3" is an abbreviation of " MPEG-1 Audio Layer III".
  - "JPEG" is an abbreviation of "Joint Photographic Experts Group".
  - "VCD" is an abbreviation of "Video CD".
  - "SVCD" is an abbreviation of "Super Video CD".

The illustrations and TV screens may be different between the actual case and the description.
- "VCD" is an abbreviation of "Video CD".
- "SVCD" is an abbreviation of "Super Video CD".
- "DVD AUDIO" is an abbreviation of "DVD Audio".
- "DVD VIDEO" is an abbreviation of "DVD Video".
Special cautions

Notes on handling

Important cautions

Installation of the system
- Select a place which is level, dry and neither too hot nor too cold; between 5°C and 35°C (between 41°F and 95°F).
- Leave sufficient distance between the system and the TV.
- Do not use the system in a place subject to vibration.

Power cord
- Do not handle the power cord with wet hands!
- A small amount of power is always consumed while the power cord is connected to the wall outlet.
- When unplugging the power cord from the wall outlet, always pull on the plug, not the power cord.

To prevent malfunctions of the system
- There are no user-serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the system.
- Do not use any non-standard shape disc (like a heart, flower or credit card, etc.) available on the market, because it may damage the system.
- Do not use a disc with tape, stickers, or paste on it, because it may damage the system.

Care of the cabinet
When cleaning the system, use a soft cloth and follow the relevant instructions on the use of chemically-coated cloths. Do not use benzene, thinner or other organic solvents including disinfectants. These may cause deformation or discoloring.

If water gets inside the system
Turn the system off and disconnect the power cord plug from the wall outlet, then call the store where you made your purchase. Using the system in this condition may cause fire or electrical shock.

When condensation or water drops adhere to the lens
In any of the following cases, condensation or water drops may adhere to the lens to prevent the system from working properly:
- Immediately after room heating starts
- When the system is installed in a steamy or damp space
- When the system is suddenly moved from a cold place to a warm space
In any of these cases, leave the system turned on for 1 or 2 hours before use.

Supplied accessories
Check to be sure you have all of the supplied accessories. The number in parentheses is the quantity of the pieces supplied. If anything is missing, contact your dealer immediately.

- Remote control (1)
- Batteries (2)
- FM antenna (1)
- AM loop antenna (1)
- Power cord (1)
- Composite video cord (1)
- Speaker cords (2)

Safety precautions

Avoid moisture, water and dust
Do not place the system in moist or dusty places.

Avoid high temperatures
Do not expose the system to direct sunlight and do not place it near a heating device.

When you are away
When away on travel or for other reasons for an extended period of time, disconnect the power cord plug from the wall outlet.

Do not block the vents
Blocking the vents may damage the system.

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“DTS” and “DTS 2.0+ DIGITAL OUT” are registered trademarks of Digital Theater Systems, Inc.

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 use only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.
About discs

**Playable disc types**

This system has been designed to play back the following discs:
- DVD VIDEO, DVD AUDIO, VCD, SVCD, CD

This system can also play back the following discs:
- Finalized DVD-R/RW discs recorded in the DVD VIDEO format.
- CD-R/RW discs recorded in the following formats:
  - Music CDs (finalized discs)
  - VCDs
  - SVCDs
  - MP3/JPEG discs recorded in ISO 9660 (for details, refer to "About MP3/JPEG discs").

However, some discs may not be played back because of their disc characteristics, recording conditions, or damage or stain on them. Only sounds can be played back from the following discs:
- MIX-MODE CD
- CD-EXTRA
- CD-G

**Discs you can play:**

<table>
<thead>
<tr>
<th>Disc Type</th>
<th>Mark (Logo)</th>
<th>Video Format</th>
<th>Region Code Number*</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD VIDEO</td>
<td><img src="logo.png" alt="DVD Logo" /></td>
<td>NTSC</td>
<td>1/ALL</td>
</tr>
<tr>
<td>DVD AUDIO</td>
<td><img src="logo.png" alt="DVD Logo" /></td>
<td>——</td>
<td>——</td>
</tr>
<tr>
<td>VCD</td>
<td><img src="logo.png" alt="Video CD Logo" /></td>
<td>NTSC</td>
<td>——</td>
</tr>
<tr>
<td>SVCD</td>
<td><img src="logo.png" alt="Video CD Logo" /></td>
<td>NTSC</td>
<td>——</td>
</tr>
<tr>
<td>CD</td>
<td><img src="logo.png" alt="CD Logo" /></td>
<td>——</td>
<td>——</td>
</tr>
<tr>
<td>CD-R</td>
<td><img src="logo.png" alt="CD-R Logo" /></td>
<td>——</td>
<td>——</td>
</tr>
<tr>
<td>CD-RW</td>
<td><img src="logo.png" alt="CD-RW Logo" /></td>
<td>——</td>
<td>——</td>
</tr>
</tbody>
</table>

*Note on Region Code*

DVD players and DVD VIDEOs have their own Region Code numbers. This system can only play back a DVD VIDEO recorded with the Region Code number and video format mentioned above.

**Examples:**

- ![Region Code Example](example.png)

If a DVD VIDEO with an improper Region Code number is loaded, "REGION CODE ERROR!" appears on the TV screen and playback cannot start.

- On some DVD VIDEOs, DVD AUDIOs, VCDs or SVCDs, their actual operation may be different from what is explained in this manual. This is due to the disc programming and disc structure, not a malfunction of this system.

**Disks that cannot be played back**

- The following discs cannot be played back:
  - DVD-ROM, DVD-RAM, DVD-RW (recorded in VR format), CD-ROM, CD-I (CD-I Ready), Photo CD, SACD, etc.
  - Playing back these discs will generate noise and damage the speakers.

- Damaged discs and discs in an extraordinary shape (other than a disc of 12 cm or 8 cm (4 3/4 inches or 3 1/8 inches) in diameter) cannot be played back.

- **About MP3/JPEG discs**
  - Playable MP3/JPEG discs and files:
    - Discs recorded in the ISO 9660 format are playable (except discs recorded in the "packet write" format (UDF format)).
    - Discs recorded in the multi-session format are also playable.
    - Files with an extension of ".mp3," ".jpg" or ".jpeg" (extensions with uppercase and lowercase letters mixed are also acceptable) are playable.

- **Notes on MP3/JPEG discs and files**
  - A disc may not be played, or reading it may take a long time depending on its recording conditions or properties.
  - The time needed for reading varies with the number of groups or tracks (files) recorded on the disc.
  - If a character other than single byte English characters is used in the file name of an MP3/JPEG file, the track/file name will not be displayed correctly.
  - The order of tracks/groups displayed on the MP3 Control screen, and the order of files/groups displayed on the JPEG Control screen may be different from that of files/folders displayed on PC's monitor screen.
  - In the case of MP3 discs, since groups/tracks are played in alphabetical order, an off-the-shelf MP3 disc may be played in an order different from that indicated on the label attached to the disc.
  - Playing an MP3 file including a still image may take a long time. The elapsed time is not displayed until playing starts. If playing starts, the elapsed time may not be displayed correctly.
  - This system does not handle the ID3 tag of the MP3 file.
  - For an MP3 file, a disc with a sampling frequency of 44.1 kHz and transmission rate of 128 kbps is recommended.
  - This system can play a baseline JPEG file, excluding monochromatic JPEG files.
  - This system can play JPEG data taken with a digital camera conforming to the DCF (Design Rule for Camera File System) standard (when a function is applied such as the automatic rotation function of a digital camera, data goes beyond the DCF standard, so the image may not be displayed).
  - If data has been processed, edited and restored with PC image editing software, the data may not be displayed.
  - This system cannot play animations such as MOTION JPEG, or still images (TIFF etc.) other than JPEG, and image data with sound.
  - The resolution of 640 x 480 is recommended for JPEG files. If a file has been recorded at a resolution of more than 640 x 480, display may take a long time. An image with a horizontal resolution of more than 2,400 pixels cannot be displayed.
About discs (continued)

**Disc structure**

**DVD VIDEO**
A DVD VIDEO consists of "titles" and each title may be divided into "chapters".

```
<table>
<thead>
<tr>
<th>Title 1</th>
<th>Title 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 1</td>
<td>Chapter 2</td>
</tr>
<tr>
<td>Chapter 3</td>
<td>Chapter 1</td>
</tr>
<tr>
<td>Chapter 2</td>
<td>Chapter 2</td>
</tr>
</tbody>
</table>
```

**DVD AUDIO**
A DVD AUDIO consists of "groups" and each group may be divided into "tracks". Some discs include a "bonus group" that requires a password for playing (see page 27).

```
<table>
<thead>
<tr>
<th>Group 1</th>
<th>Group 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track 1</td>
<td>Track 2</td>
</tr>
<tr>
<td>Track 3</td>
<td>Track 1</td>
</tr>
<tr>
<td>Track 2</td>
<td>Track 2</td>
</tr>
</tbody>
</table>
```

**VCD/SVCD/CD**
VCD, SVCD and CD consist of "tracks". In general, each track has its own track number. (On some discs, each track may also be further divided by indexes.)

```
| Track 1 | Track 2 | Track 3 | Track 4 | Track 5 |
```

**MP3 [JPEG] discs**
On an MP3 [JPEG] disc, each still picture (material) is recorded as a track [file]. Tracks [Files] are usually grouped into a folder. Folders can also include other folders, creating hierarchical folder layers.

This unit simplifies the hierarchical construction of a disc and manages folders by "groups".

```
<table>
<thead>
<tr>
<th>Group 1</th>
<th>Group 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track 1 [File 1]</td>
<td>Track 2 [File 2]</td>
</tr>
<tr>
<td>Group 3</td>
<td>Group 4</td>
</tr>
<tr>
<td>Group 5</td>
<td>Group 6</td>
</tr>
</tbody>
</table>
```

This unit can recognize up to 150 tracks [files] per group and up to 99 groups per disc (up to 14,850 files in total). Since the unit ignores the tracks [files] whose numbers are exceeding 150 and the groups whose numbers are exceeding 99, they cannot be played back.

- If there is any type of files other than MP3 [JPEG] files in a folder, those files are also counted in the total file number.
Description of parts

The numbers represent the page numbers.

Front panel

Connect a pair of headphones (commercially available) with a stereo mini plug. If the headphones are connected, the speakers and subwoofer will not produce any sound.

Display window

Rear panel

Cooling fan (inside)
The fan rotates and stops automatically.
This discharges heat generated inside the unit.
Do not cover up these holes.
Using the remote control

The numbers represent the page numbers.

Putting the batteries in the remote control

If the range or effectiveness of the remote control decreases, replace the batteries. Use two R6P (SUM-3)/AA(15F) type dry-cell batteries.

**CAUTION**
- Do not use a used battery and a new battery together.
- Do not use different types of batteries at the same time.
- Take out the batteries if the remote control is not to be used for a long time. Otherwise it may cause a leakage.

Remote control operation

When operating the remote control, point it towards the front panel of the main unit. If the remote control is operated from a direction that is extremely oblique or when there is an obstacle in the way, signals may not be transmitted.

If the remote control sensor is exposed to strong light such as direct sunlight, correct operation may not be carried out.
**Introduction**

This page is for when operating your TV using the remote control of this product.

---

**Operating the TV using the remote control**

1. Slide the remote control mode selector to the TV side.

2. Keep pressing down **TV**.

   **NOTE**
   
   *Keep pressing down **TV** until Step 4 is complete.*


---

**4 Press number buttons (1-9, 0).**

**Examples:**

For a Hitachi TV: Press 1, then 0.
For a Toshiba TV: Press 0, then 8.

If there are more than one manufacturer’s codes, try them in turn and select the one that causes the product to work properly.

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Code</th>
<th>Manufacturer</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>JVC</td>
<td>01</td>
<td>Samsung</td>
<td>12</td>
</tr>
<tr>
<td>Hitachi</td>
<td>10</td>
<td>Sanyo</td>
<td>13</td>
</tr>
<tr>
<td>Magnavox</td>
<td>02</td>
<td>Sharp</td>
<td>06</td>
</tr>
<tr>
<td>Mitsubishi</td>
<td>03</td>
<td>Sony</td>
<td>07</td>
</tr>
<tr>
<td>Panasonic</td>
<td>04, 11</td>
<td>Toshiba</td>
<td>08</td>
</tr>
<tr>
<td>RCA</td>
<td>05</td>
<td>Zenith</td>
<td>09</td>
</tr>
</tbody>
</table>

---

**5 Release **TV**.**

**For TV operation**

Operate the remote control by pointing it towards the TV.

- **TV**: Turn ON/OFF the power.
- **TV CHANNEL**: Change channels.
- **TV VOL.**: Adjust volume.
- **TV RETURN**: Alternates between the previously selected channel and the current channel.
- **VIDEO INPUT**: Switch TV and video input.

---

*1 Make sure to slide the remote control mode selector to the TV side in advance.

**NOTE**

When the batteries are replaced, perform the manufacturer’s code setting again.
Connecting up – Do not turn on the power until the connection is complete –

Connecting antennas

Connecting AM loop antenna (supplied)

1 Set up the AM loop antenna.

2 Connect antenna cords.

3 Turn the AM loop antenna to the direction of the best radio reception.
   Locate the AM loop antenna as far away from the main unit as possible.
   • Do not locate the AM loop antenna on a metallic table or close to a TV, personal computer, etc. Otherwise it may result in bad radio reception.

When good radio reception cannot be obtained with the supplied AM loop antenna

■ When good radio reception cannot be obtained with the supplied AM loop antenna

   Electric wire: 3 - 5 m (9 feet 10 inches - 16 feet 5 inches) (commercially available)

   Twist

   Put up an electric wire extending horizontally, preferably at a high place such as above a window or outdoors.

   Connect the AM loop antenna cords together.

Connecting FM antenna (supplied)

7 When good radio reception cannot be obtained with the supplied antenna or when using a communal antenna

Put the antenna up straight in the direction where the best radio reception can be obtained, and fix by using tape.

For details of connecting a separately sold antenna, refer to the user guide for the antenna or converter.

When positioning the antenna, listen to an actual radio program (refer to “Listening to a radio broadcast” on page 32).
Connecting speakers

There is no difference between the left and right speakers.

CAUTION

• DO NOT connect more than one speaker to one speaker terminal.
• The speakers of this product are magnetically shielded, but color irregularities may occur on the TV depending on how the speakers are installed. Keep in mind the following:
  1. Turn off the main power of your TV before installing the speakers. Wait for about 30 minutes before turning on the TV again.
  2. If color irregularity occurs in pictures, keep a distance of more than 10 cm (3 15/16 inches) between the TV and the speakers.

The speakers employ natural wood for the diaphragm and the cabinet in order to reproduce the original sound faithfully. The appearance will therefore be different for each unit.

NOTE

• Impedance of speaker that can be connected to the main unit is within a range of 4Ω to 16Ω.
• In order to have a sufficient cooling effect, leave a space of more than 1 cm (3/8 inches) between the main unit and the speakers or other objects.
Connecting up (continued) – Do not turn on the power until the connection is complete –

Connecting other devices

This page is for when connecting the main unit with other devices.

Connecting subwoofer

With an amplifier-built in subwoofer (sold separately), you can enjoy a more dynamic bass sound. Refer to the manual of the subwoofer for details.

When you want to hear sound from the subwoofer, press S.WFR OUT on the remote control to display “SUB WFR ON” (Sub Woofer ON) on the display window on the main unit. Each time you press the button, the display toggles between “ON” and “OFF”.

NOTE
When “SUB WFR ON” is selected, bass sound from the left and right speakers will be automatically lowered and the bass sound will be emitted mainly from the subwoofer.

Connecting with a digital device

CAUTION
For details of signals to be output, refer to page 30.
If connecting the main unit with equipment with the function of a Dolby Digital decoder, the setting in “D. RANGE COMPRESSION” of “AUDIO” (page 30) will be invalid regarding sound from the digital audio output of the main unit.
**Connecting with TV**

- **Supplied composite video cord**
- **Main unit**

**CAUTION**
Connect the main unit directly with a TV (or a monitor) without routing through a VCR. Otherwise it may cause picture distortion while playing.

Also, when connecting the main unit to a TV with a VCR built in, there may be picture distortion while playing.

**When a clearer picture is desired**

You can enjoy pictures of better quality using the following cord instead of the supplied video cord.

**Connecting by using the S-Video cord**

- **TV**
- **S-Video cord (sold separately)**
- **Main unit**

**CAUTION**
Use one of either the S-Video cord or the component video cord. If both cords are used, pictures may not be played properly.

**NOTE**
- In order to enjoy pictures with Progressive mode (page 26), the TV is required to have Progressive video input.
- If the component video input jacks of your TV are BNC type, use a plug adapter (not supplied) to convert the plugs.

**Connecting the power cord**

- **AC outlet**
- **Supplied power cord**
- **Main unit**

- Connect the power cord after all other connections are complete.
- The STANDBY lamp (on the front panel) will be lit.
Playing discs

Playback

![Playback diagram]

1. Press \( \text{O} / \text{I} \) AUDIO.
   - The power will be turned on and the STANDBY lamp will go off.
   - Press \( \text{O} / \text{I} \) AUDIO again to turn off the power.

2. Press ▲OPEN/CLOSE to open the disc tray to load a disc.

3. Press ►(play).
   The disc tray will close and playback will start.

- The power will be turned on when any of \( \text{O} / \text{I} \), \( \text{PLAY} \), \( \text{STOP} \), or \( \text{PAUSE} \) on the main unit and \( \text{O} / \text{I} \), \( \text{PLAY} \), \( \text{STOP} \), or \( \text{PAUSE} \) on the remote control is pressed while the power is off.

If any button other than \( \text{O} / \text{I} \) or \( \text{OPEN/CLOSE} \) is pressed, the source will also be changed (if there is a disc loaded, playback will start).

**NOTE**
- A menu screen may be displayed after starting playback of a DVD. In this case, select a desired item to playback by using the following buttons on the remote control.
  - Select a desired item using \( \text{SELECT} \) and \( \text{PREV} \) and \( \text{NEXT} \).
  - Select a desired item using the number buttons.
  - Depending on the disc, actual operation may be different from the description.

### Screens displayed on the TV when the power is turned ON.

The following messages appear depending on the status of the system. (When FM/AM or AUX is selected as a source, the messages do not appear.)

<table>
<thead>
<tr>
<th>Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOW READING</td>
<td>Appears when the system is reading the disc information. Wait for a while.</td>
</tr>
<tr>
<td>REGION CODE ERROR!</td>
<td>Appears when the Region Code of the DVD does not match the code the system supports. (⇒ page 3)</td>
</tr>
<tr>
<td>NO DISC</td>
<td>Appears when no disc is loaded.</td>
</tr>
<tr>
<td>OPEN</td>
<td>Appears when opening the disc tray.</td>
</tr>
<tr>
<td>CLOSE</td>
<td>Appears when closing the disc tray.</td>
</tr>
</tbody>
</table>
Basic operations

Display window during disc playback

Example: When a DVD VIDEO or DVD AUDIO is played

```
0:00:03
01
```

If “BONUS” or “B.S.P.” is displayed during a DVD AUDIO playback, refer to page 27.

Example: When a SVCD or VCD is played

```
PBC 1
01
```

- PBC (Play Back Control): A signal recorded in a VCD (version 2.0) for controlling playback. It is possible to enjoy interactive software or software with a search function using a menu screen recorded in a PBC compatible VCD. To play a disc with the PBC function OFF, carry out the following operations.
  - Designate the track number using the number buttons while the disc is stopped.
  - Designate the track number using ◄ or ► while the disc is stopped, and then press ► (play).
  - Press RETURN to go back to the upper layer during the PBC playback of a VCD or SVCD.

Example: When a CD is played

```
1:30
01
```

To switch the display

Press UPPER or LOWER. Each time you press the button, the display will be alternated.

Display examples

- DVD VIDEO
  - UPPER: 0:00:03 (Elapsed playing time) → T1 C3 (Title and Chapter number)
  - LOWER: 03 (Chapter number) → T1 (Title number) → DVD
- DVD AUDIO
  - UPPER: 0:00:03 (Elapsed playing time) → G1 T3 (Group and Track number)
  - LOWER: 03 (Track number) → G1 (Group number) → DVD
- VCD/SVCD
  - UPPER: 0:03 (Elapsed playing time) No display
  - LOWER: 02 (Track number) → VCD
- CD
  - UPPER: 0:03 (Elapsed playing time) No display
  - LOWER: 02 (Track number) → CD
- MP3 disc
  - UPPER: 0:00:03 (Elapsed playing time) → G1 T3 (Track number)
  - LOWER: G1 (Group number) → MP3 → 03 (Track number)
- JPEG disc
  - UPPER: G1 F3 (Group number and File number) No display
  - LOWER: JPG

NOTE

Abbreviations

G: Group
T: Title (DVD VIDEO)
C: Chapter
F: File
Select what you want to play by using the number buttons

**NOTE**
- Set the remote control mode selector to **AUD** before using the number buttons.
- For a VCD or SVCD, this operation can be carried out when the disc is stopped, or during playback without the PBC function.
- For a DVD AUDIO, CD, MP3 or JPEG, this operation can also be carried out when the disc is stopped.
- This operation may not be carried out for some discs.

Designate the chapter number or track number to play during playback.
Refer to “How to use the number buttons” on page 15.

**To stop playback**

[DVD VIDEO] [DVD AUDIO] [VCD] [SVCD] [CD] [MP3] [JPEG]
Press ■ during playback.

**To pause playback**

[DVD VIDEO] [DVD AUDIO] [VCD] [SVCD] [CD] [MP3] [JPEG]
Press II during playback.
To resume normal playback, press ▶ (play).
- Press II to pause during JPEG disc slide-show.
- Press ▶ (play) to start playback from the next file.
- It is not possible to pause by pressing ▶/II on the main unit during JPEG disc slide-show.

**To advance picture frame-by-frame**

[DVD VIDEO] [SVCD] [VCD]
Press II during pause.
Each time you press the button, picture will be advanced frame-by-frame.

**Fast reverse/Fast forward search**

[DVD VIDEO] [DVD AUDIO] [VCD] [SVCD] [CD]
There are two methods.
- Press ◀ or ▶ during playback.
  Each time you press the button, the speed increases (×2, ×5, ×10, ×20, ×60). To restore the normal speed, press ▶ (play).
- Hold down ◀ or ▶.
  Fast reverse/Fast forward search can be carried out only while the button is pressed (×2→×5).

**NOTE**
- Fast reverse/Fast forward search cannot be carried out for MP3 and JPEG.
- For a DVD VIDEO, SVCD or VCD, no sound comes out during fast reverse/fast forward search.
- For a CD or DVD AUDIO, sound is intermittent during fast reverse/fast forward search.
Basic operations

Playing back from a position 10 seconds before (One Touch Replay)

Press ◀ during playback.

NOTE
• This operation may not be carried out for some discs.
• It is not possible to go back to the immediately previous title.

Slow Motion Playback

Press SLOW ◀ or SLOW ◆ during pause.
• Each time you press the button, the speed increases.
• Press II to pause playback, and press ► (play) to resume normal playback.

NOTE
• No sound will be produced.
• The picture motion in the reverse direction may not be smooth.
• For a VCD or SVCD, Slow Motion Playback can be carried out in the forward direction only.

Skip to the beginning of the selection

Press ◀ or ► during playback*.
• Each time you press the button, the previous or next beginning of chapter/track/file to the current position will be skipped to.
• Press ◀ once to skip back to the beginning of the chapter or track currently being played (except for JPEG).
• Press GROUP/TITLE ◄ or ◆ to select the title or group.
• During playback of a JPEG disc, press ◄ or ◄ or cursor ◀ to play the next file, or press ◀ or ◄ or cursor ◄ to play the previous file.

NOTE
• For a VCD or SVCD, this operation can be carried out during playback without the PBC function.
• Except for a DVD VIDEO, this operation can also be carried out while the disc is stopped.
• This operation may not be carried out for some discs.

How to use the number buttons

Examples:
5: 5 15: 15 5
20: 15 15 25: 25 15 5

Guide icons displayed on the TV screen (On-screen guide)

: Play
: Pause
: Fast reverse/Fast forward search
: Slow Motion Playback (reverse/forward directions)
: Containing multi-angle views (⇒ page 24)
: Containing multi-audio languages (⇒ page 24)
: Containing multi-subtitle languages (⇒ page 24)
: The disc cannot accept the operation you have attempted.
Playing discs (continued)

**To change the brightness of the display window (DIMMER)**

Press DIMMER repeatedly.
- The modified brightness will be stored even after the power is turned off.

The items below can be carried out for all sources.

**Adjusting the volume**

Press AUDIO VOL +/–.

*NOTE*
The volume can be adjusted by turning the VOLUME control on the main unit.

**Adjusting sound quality**

Bass: Press BASS +/–.
Treble: Press TREBLE +/–.

**Turning off the sound temporarily (MUTING)**

Press MUTING.
- No sound will come out from the speakers, headphones and the subwoofer.
- Press MUTING again to restore the sound.
  When the power is turned off once and turned on again, the sound will be restored.

*NOTE*
Set the remote control mode selector to AUDIO before using the number buttons.
Advanced operations

### Playback

**MP3** | **JPEG**

Display of an MP3 disc is described here as an example. For a JPEG disc, read “track” as “file”.

**NOTE**
When playing a disc containing both MP3 and JPEG files, set one of them to be played (☞ page 29).

1. **Load a disc.**

   Elapsed time of the track currently being played (MP3 only).

2. **Press cursor ▲/▼** to select a group.

3. **Press cursor ►** to move to the track list.
   - Press cursor ◄ to go back to the group list.

4. **Press cursor ▲/▼** to select a track.

5. **Press ► (play) or ENTER.**

**NOTE**
- **GROUP/TITLE** ◄◄ can also be used in Step 2.
- The number buttons can also be used in Step 4. In this case, Steps 3 and 5 are not needed. (For how to use the number buttons, refer to page 15).
- ◄◄ or ►► can also be used in Step 4. In this case, Step 3 is not needed.

### Repeat playback

**MP3** | **JPEG**

1. **Press REPEAT while the disc is stopped.**

   Each time you press the button, the Repeat type will be alternated.

   - **Repeat types**
     - Repeats the current track (only for MP3).
     - Repeats the current group.
     - Repeats the entire disc.
   - **Display on the TV screen**
     - REPEAT TRACK
     - REPEAT GROUP
     - REPEAT ALL
   - **Display on the display window on the main unit**
     - No display
     - ALL

   - Cancels repeat.

2. **Press ► (play).**

**NOTE**
- The Repeat types can be changed during playback.
- The Repeat mode will be automatically cancelled if there is a file that cannot be played (☞ page 3).

### Slide-Show Playback **JPEG**

- In Step 5, for a JPEG disc, when ► (play) is pressed, files will be continuously played from the selected file (Slide-Show Playback), and when ENTER is pressed, only a selected file will be played.
- Display time for a file in Slide-Show Playback is about 3 seconds.
- When all files are played through, the playback will be automatically stopped.
Resume Playback

When playback is stopped in the middle, playback can be started from the stopped scene. This is called Resume function.

How to suspend playback
Perform any of the following operations during playback.

- Press  once.*
- Press Off/AUDIO to turn off the power.
- Change the source to FM/AM or AUX.*

* Even if the power is turned off by pressing Off/AUDIO after this, the position where playback has been stopped will be stored.

To start playback from the stored position
Press [play].

**NOTE**
- This function does not work in Program Playback or Random Playback.
- The position where playback starts again may be a little different from the stopped position.
- When a disc menu is displayed, the Resume function may not work.
- The audio language, the subtitle language and the angle at that time are stored as well as the stopped position.
- The stored position will be cleared if the disc tray is opened. Further, if  is pressed during playback, “RESUME” will be displayed. If  is pressed at this time, “RESUME OFF” will be displayed and the stored information will be cleared.
- At the time of purchase, Resume is set to ON. Resume can be set to OFF (see page 30).
Select the scene to be played

19

NOTE
Set the remote control mode selector to AUDIO before using the number buttons.

1 Press MENU or TOP MENU while the disc is stopped or during playback*1.
   The disc menu screen will be displayed.

2 Press cursor ▲/▼/◄/►(only for a DVD VIDEO or DVD AUDIO) or the number buttons to select the scene to be played.
   • Refer to “How to use the number buttons” (page 15).
   • When the menu screen has a couple of pages, press ◄ or ► to change the page (only for a VCD and SVCD).

3 Press ENTER.

NOTE
*1 For a VCD and SVCD, this operation can be carried out only when the PBC function is off.
*2 This operation cannot be carried out for a disc without a menu screen.
   • Playback may start for some discs without pressing ENTER.

Designate the time
(Time search)

1 Press ON SCREEN twice during playback*2.
   The menu bar will be displayed (page 28).

2 Press cursor ◄/► to select ◄.

3 Press ENTER.

4 Input the time*3 using the number buttons (1-9, 0).
   • Input “hours”, “minutes” and “seconds” for a DVD VIDEO and DVD AUDIO, and input “minutes” and “seconds” for a CD and VCD.
   “minutes” and “seconds” can be omitted.

   Example: When you want to play a DVD VIDEO from the position of (0 hour) 23 minutes 45 seconds,
   press the buttons in the order:

   Example: When you want to play a VCD or CD from the position of (0 minute) 23 seconds,
   press the buttons in the order:

   If you input wrong numbers, press cursor ◄ to delete the numbers and re-input.

5 Press ENTER.
   To delete the menu bar, press ON SCREEN.

NOTE
*2 For a CD, this operation can always be carried out, while, for a VCD, the operation can be carried out when the disc is stopped or during playback without the PBC function.
*3 Time search for a DVD VIDEO is from the beginning of the title, for a DVD AUDIO from the beginning of the track being played. Time search for a VCD and a CD is as follows:
   • When the disc is stopped, time search is from the beginning of the disc.
   • When the disc is being played, time search is within the track currently being played.
Program Playback/Random Playback

**Play the disc in the desired order**
*(Program Playback)*

It is possible to program a maximum of 99 chapters or tracks. The same chapter or track can be programmed more than once.

1. While the disc is stopped, press PLAY MODE repeatedly to display "PRGM" on the display window on the main unit.

   "PRGM" is an abbreviation for PROGRAM.

   **Example:** For DVD VIDEO

2. Create a program following the description on the TV screen.

   Refer to “How to use the number buttons” *(☞ page 15).*
   - The input content varies depending on the disc type.
   - DVD VIDEO: Titles and chapters
   - VCD, SVCD, CD: Tracks
   - DVD AUDIO, MP3: Groups and tracks
   - To select a DVD AUDIO bonus group, carry out the operations of “Playing the Bonus Group” on page 27 in advance to erase the display “BONUS”.
   - If the number of chapters or tracks input is greater than 99, “FULL” will be displayed.
   - In the case of a CD, SVCD or VCD, when the total playback time reaches 99 minutes 59 seconds, “--:--” will be displayed on the display window (It is possible to continue programming).

**NOTE**

Set the remote control mode selector to \*AUDIO\* before using the number buttons.
Advanced operations

To program on the display window on the main unit, operate as follows.

1. Select a title/group using the number buttons.
   Display example of the upper display window: T2 C--

2. Designate a chapter/track number using the number buttons.
   Display example of the upper display window: T2 C3
   • Refer to “How to use the number buttons” (see page 15).
   • The program number will be displayed on the lower display window (Example: “P2”).

3. Repeat the above operations (1) and (2) to complete the program. Then, advance to Step 3.

Press ► (play).
- To resume normal playback, press PLAY MODE repeatedly to display “NORMAL” on the display window on the main unit while the disc is stopped. The program content will not be erased.
- The following operations erase the program content.
  • Hold down CANCEL until “CLEAR!” appears on the display window with the program preference screen displayed (if CANCEL is pressed and released quickly, programs will be erased one by one).
  • Open the disc tray
  • Turn off the power

Playing the disc in a random order
(Random Playback)

1. Press PLAY MODE repeatedly to display “RANDOM” on the display window on the main unit while the disc is stopped.
   • “RANDOM” will also be displayed on the TV screen.

2. Press ► (play).
   • The same chapter or track will not be played twice.
   • To resume normal playback, press PLAY MODE repeatedly to display “NORMAL” on the display window on the main unit while the disc is stopped.
   • Random Playback will also be cancelled by carrying out the following operations.
     • Open the disc tray
     • Turn off the power
   • The previous track will not be returned to even if ► is pressed repeatedly during Random Playback (the beginning of the current chapter or track will be returned to).
Repeat Playback

Refer to page 17 for Repeat Playback of MP3 and JPEG files.

Press REPEAT during playback. Each time you press the button, the Repeat type will be alternated.

Example:

For DVD VIDEO

- Repeat types: Display on the TV screen
  - Turns off

For DVD AUDIO

- Repeat types: Display on the TV screen
  - Turns off

- NOTE
  - For a DVD AUDIO and CD, this operation can always be carried out, while, for a VCD and SVCD, the operation can be carried out when the disc is stopped or during playback without the PBC function.
  - It is possible to set Repeat on the menu bar. For how to operate, refer to "Playing the designated part repeatedly (A-B Repeat Playback)" (☞ page 23).
  - The abbreviations displayed on the main unit are as follows:
    - TRK: Track
    - CHP: Chapter
    - TI: Title
    - GR: Group
  - For a DVD VIDEO and DVD AUDIO, if the source is switched to FM/AM or AUX, the Repeat mode will be cancelled.

Playing the title/chapter/group/track/all tracks repeatedly (REPEAT)

1. Press REPEAT during playback.

   Each time you press the button, the Repeat type will be alternated.

   Example:

   TV screen: Display window on the main unit
   - CHAP

Repeat Playback during Program or Random Playback

<table>
<thead>
<tr>
<th>Repeat types</th>
<th>Display on the TV screen</th>
<th>Display on the main unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repeats the current chapter</td>
<td>CHAP</td>
<td></td>
</tr>
<tr>
<td>Repeats all programmed tracks</td>
<td>ALL</td>
<td>ALL</td>
</tr>
<tr>
<td>Cancels repeat</td>
<td>OFF</td>
<td>No display</td>
</tr>
</tbody>
</table>

* * represents blinking.
Advanced operations

Playing the designated part repeatedly (A-B Repeat Playback)

1. Press ON SCREEN twice during playback.
   The menu bar (page 28) will be displayed.

2. Press cursor \( \downarrow/\uparrow \) to select \( \square \) OFF.

3. Press ENTER.

4. Press cursor \( \uparrow/\downarrow \) to display \( \square \) OFF.
   Other Repeat modes can be selected here.
   For other Repeat modes, refer to “Playing the title/chapter/group/track/all tracks repeatedly (REPEAT)” (page 22).

5. Press ENTER at the start point of the part to be repeated (designating A point).
   • The icon on the menu bar will be \( \square \) OFF.

6. Press ENTER at the end point of the part to be repeated (designating B point).
   • The icon on the menu bar will be \( \square \) OFF.
   • \( \square \) will appear blinking on the display window on the main unit and the part between A and B points will be played repeatedly.
   • A-B Repeat Playback will be cancelled by carrying out the following operations.
     • Press \( \bullet \).
     • Select \( \square \) OFF and press ENTER twice.

NOTE
A-B Repeat Playback is possible only within the same title or track. A-B Repeat Playback cannot be carried out during PBC playback, Program Playback, Random Playback and Repeat Playback.
Other convenient functions

Selecting the subtitles

1 Press SUBTITLE during playback of a disc containing subtitles in several languages.

Example: 

- Each time you press the button, the subtitle will be alternated between ON/OFF.

2 Press cursor ▲/▼ to select a subtitle language.
- For a language code such as “AA”, refer to “Language codes” (page 38).
- The manner of displaying subtitle languages may be different depending on the disc.

3 Wait for a few seconds or press ENTER.

NOTE
- It is possible to operate by using the menu bar (page 28).
- For a SVCD, each time you press SUBTITLE in Step 1, the subtitle type and ON/OFF will be alternated.

Selecting the audio language

1 Press AUDIO during playback of a disc containing several audio languages.

Example: 

- Each time you press the button, the audio language will be alternated. Also, the audio language can be changed by pressing cursor ▲/▼.
- For a language code such as “AA”, refer to “Language codes” (page 38).
- “ST”, “L” and “R” displayed when playing a VCD or SVCD respectively represent “Stereo”, “left sound” and “right sound”.

2 Wait for a few seconds or press ENTER.

NOTE
- It is possible to operate by using the menu bar (page 28).

Selecting a view angle

1 Press ANGLE during playback of a scene containing multi-view angles.

Example: 

- Each time you press the button, the angle will be alternated. Also, the angle can be changed by pressing cursor ▲/▼.

2 Wait for a few seconds or press ENTER.

NOTE
- It is possible to operate by using the menu bar (page 28).
**Advanced operations**

### Enlarging the picture (ZOOM)

**DVD VCD SVCD DVD AUDIO**

(only for moving image)

1. **Press ZOOM during playback or while paused.**
   - Each time you press the button, the picture magnification will be changed (×1.5 only for a VCD and SVCD).

2. **Select the portion you want to see by using cursor ▲▼←→.**
   - This operation cannot be carried out when the magnification is ×1.
   - To resume normal playback, select ×1 in Step 1.

### Adjusting the picture quality (VFP)

**DVD VCD SVCD JPEG**

1. **Press VFP during playback or while paused.**
   - “VFP SET” will appear on the display window on the main unit and the current setting will be displayed on the TV screen.

```
GAMMA OFF
BRIGHTNESS +0
CONTRAST +0
SATURATION +0
TINT +0
SHARPNESS +0
```

- Gamma: Controls brightness of neutral tints while maintaining brightness of dark and bright portions.
- Sharpness: Controls screen sharpness.

2. **Press cursor ←/→ to select VFP mode.**
   - It is recommended to select “NORMAL” usually, or “CINEMA” in a dark room. When either “NORMAL” or “CINEMA” is selected, go to Step 7.
   - When either “USER 1” or “USER 2” is selected, the adjustment can be carried out in detail in the operations after Step 3.

3. **Press cursor ▲▼ to select an item to be adjusted.**

4. **Press ENTER.**
   - Example:

```
GAMMA OFF
```

5. **Press cursor ▲▼ to change the value.**

6. **Press ENTER.**
   - To adjust other items, go back to Step 3.

7. **Press VFP.**

**NOTE**

- If no operation is made for several seconds during the procedure, the settings made so far will be automatically stored.
- “VFP” is an abbreviation of “Video Fine Processor.”
Creating realistic sound (VIRTUAL SURROUND)

Virtual Surround can be set only for multi-channel sound (AC3, LPCM, PPCM and DTS). Virtual Surround cannot be set for 2 channel audio such as PCM stereo or Dolby Surround.

1 Press VIRTUAL SURROUND during playback.

Example: TV screen

- Each time you press the button, the Surround mode will be alternated between ON/OFF.
- When ON, “SURROUND” appears on the display window.
- When switching the Surround mode, the sound will be intermittent.

NOTE
- Virtual Surround is effective for the speakers and headphones.
- “V.SUR.” displayed on the display window is an abbreviation of “Virtual Surround”.

Adjusting playback level (DVD LEVEL)

The audio of a DVD VIDEO and DVD AUDIO may be recorded at a lower level (volume) than for other types of disc. If the difference is not to your liking, adjust the DVD Level.

1 Press DVD LEVEL during playback.

- Each time you press the button, the level will be alternated among “NOR” (Normal), “MID” (Middle) and “HIG” (High).
- Select the level while listening to the sound played.

NOTE
- DVD Level is effective only for playback of a DVD.
- Even if the DVD Level is changed, the output level from the digital audio output terminal will not be changed.
- This operation can be carried out while the disc is stopped or paused.

Enjoying better pictures (PROGRESSIVE)

In the Progressive mode, better pictures can be enjoyed.

CAUTION
- In order to enjoy pictures in the Progressive mode, the following requirements should be met.
  - There must be a component video input terminal on the TV set connected to the main unit.
  - The main unit and the TV set must be connected using a component video cord (page 11).

When the above requirements are not satisfied, leave the main unit in the Interlace mode. If the Progressive mode is set, pictures may be distorted.

NOTE
- Progressive mode: All scanned lines will be displayed at once. Pictures of higher resolution than those in the Interlace mode can be realized.
- Interlace mode: This is a conventional image method. Half of the scanned lines displayed in the Progressive mode will appear, alternating with the other half.

Display “PROGRESS” by holding down PROGRESSIVE during playback or while the disc is stopped, or when there is no disc loaded.

- Each time you hold down the button, the mode will be alternated between the Progressive mode and the Interlace mode.
- The display window displays “PROGRESS” when in the Progressive mode, and “INTER.” when in the Interlace mode.
NOTE
Set the remote control mode selector to AUDIO before using the number buttons.

## Playing the Bonus Group

There are some DVD AUDIO discs with a special group, called “Bonus Group”, recorded.

**NOTE**
This operation can be carried out when “BONUS” is lit on the display window on the main unit.

1. Press GROUP/TITLE repeatedly during playback to select a bonus group.
   “KEY_ _ _ _” appears on the TV screen, and on the display window on the main unit.

2. Press the number buttons to enter a pin code (4 digits).
   The method of getting a pin code may be different depending on the disc.

3. Press ENTER.
   When a correct pin code is entered, “BONUS” disappears and the playback of the bonus group starts.
   If an incorrect pin code is entered, try entering a correct pin code again.

## Browsable Still Pictures (B.S.P.)

There are some DVD AUDIO discs with still pictures recorded. Among the still pictures, there are pictures called B.S.P. (Browsable Still Pictures). With these pictures, it is possible to switch a picture as if turning over pages.

**NOTE**
This operation can be carried out when “B.S.P.” is lit on the display window on the main unit.

1. Press PAGE during playback.
   Each time you press the button, the still picture will be switched over. It is also possible to switch the picture using cursor ▲/▼.

   **Example:**
   ![PAGE 1/2](example.png)
   TV screen

2. Wait for a few seconds or press ENTER.
Using the menu bar

NOTE
- Set the remote control mode selector to AUDIO before using the number buttons.
- This operation can be carried out when there is a disc loaded. There are some functions that may not work while the disc is stopped.

1 Press ON SCREEN twice.
   “ON SCREEN” will appear on the display window on the main unit. The status bar and the menu bar will appear on the TV screen.

2 Press cursor ◀/◀ to select an item to be operated.

3 Press ENTER.
   - The selected function can be set. For the setting content, refer to the following “Functions list”.
   - The currently active function shows blue.
   - To delete the menu bar, press ON SCREEN.

Functions list

For the functions with no special description for the operations, press cursor ▲/▼ to select, and press ENTER to determine.

Information displayed on the status bar

DVD VIDEO/DVD AUDIO (the example below is for a DVD VIDEO)

VCD/SVCD/CD (the example below is for a CD)

NOTE
The playback status mark has the same meaning of the mark on the On-screen guide (☞ page 15).
The initial settings of the system can be changed according to the environment the system is used in.

**NOTE**
- Set the remote control mode selector to AUDIO before using the number buttons.
- The top and bottom of the preference screen may not be displayed on a wide TV. Adjust the picture size on the TV.

### Advanced operations

#### LANGUAGE

- If the selected language is not recorded on the disc, the optimum language set for the disc will be displayed.
- For a language code such as "AA", refer to the "Language codes" (see page 38).

<table>
<thead>
<tr>
<th>Items</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>MENU LANGUAGE</td>
<td>Select the language for the DVD VIDEO menu.</td>
</tr>
<tr>
<td>AUDIO LANGUAGE</td>
<td>Select the audio language for the DVD VIDEO.</td>
</tr>
<tr>
<td>SUBTITLE</td>
<td>Select the subtitle language for the DVD VIDEO.</td>
</tr>
<tr>
<td>ON SCREEN LANGUAGE</td>
<td>Select the language displayed on the preference screens.</td>
</tr>
</tbody>
</table>

### PICTURE

<table>
<thead>
<tr>
<th>Items</th>
<th>Contents (initial setting)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MONITOR TYPE</td>
<td>Select a display method suitable for your TV.</td>
</tr>
<tr>
<td></td>
<td>16 : 9 NORMAL: Select this when the aspect ratio of your wide TV is fixed to 16:9 (when playing a DVD VIDEO recorded at 4:3, the system automatically adjusts the screen width of the output signal).</td>
</tr>
<tr>
<td></td>
<td>16 : 9 AUTO: Select this when your TV is an ordinary wide TV.</td>
</tr>
<tr>
<td></td>
<td>4 : 3 LB (Letter Box): Select this when the aspect ratio of your TV is conventional 4:3. While viewing a wide screen picture, the black bars appear on the top and bottom of the screen.</td>
</tr>
<tr>
<td></td>
<td>4 : 3 PS (Pan Scan): Select this when the aspect ratio of your TV is conventional 4:3. While viewing a wide screen picture, the left and right edges of the picture will not be shown on the screen. (If the disc is not compatible with Pan Scan, the picture will be displayed at the Letter Box ratio.)</td>
</tr>
<tr>
<td>SCREEN SAVER</td>
<td>Select the Screen Saver mode between ON / OFF (Screen Saver activates when there is no operation made for about 5 minutes since a still picture was last displayed).</td>
</tr>
<tr>
<td>MP3/JPEG</td>
<td>If there are both MP3 and JPEG files on a disc, you can select which files to play. When the preference has been changed, open/close the tray and turn on the power again. (A disc with only one of MP3 file or JPEG file recorded can be played regardless of this preference.)</td>
</tr>
</tbody>
</table>

### Basic operations

1. Press CHOICE while the disc is stopped or no disc is loaded ("NO DISC" is displayed).
   - "SETTING" will appear on the display window on the main unit and the following screen will be displayed on the TV.

2. Proceed with operations by following the description on the TV screen.
### Preferences (continued)

#### AUDIO

<table>
<thead>
<tr>
<th>Items</th>
<th>Contents (initial setting)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIGITAL AUDIO OUTPUT</td>
<td>Select an output signal type from the following in accordance with the device connected to the digital audio output terminal (AV amplifier, etc.). (See the list below for the preference items and output signal.)</td>
</tr>
<tr>
<td></td>
<td>PCM ONLY: Device corresponding only to linear PCM.</td>
</tr>
<tr>
<td></td>
<td>DOLBY DIGITAL/PCM: Dolby digital decoder or a device having the same function.</td>
</tr>
<tr>
<td></td>
<td>STREAM/PCM: DTS/Dolby digital decoder or a device having the same function.</td>
</tr>
<tr>
<td>DOWN MIX</td>
<td>Switch signal from the digital output terminal of the DVD VIDEO according to the connected device. Select this when Digital Audio Output is set to “PCM ONLY”.</td>
</tr>
<tr>
<td></td>
<td>DOLBY SURROUND: A Dolby Pro Logic decoder-built-in device.</td>
</tr>
<tr>
<td></td>
<td>STEREO: An ordinary device.</td>
</tr>
<tr>
<td></td>
<td>• When Virtual Surround is ON, Down Mix does not work.</td>
</tr>
<tr>
<td>D (Dynamic) RANGE</td>
<td>To make adjustments for the difference between a high volume and a low volume when playing back with low volume (only for a DVD recorded with Dolby digital).</td>
</tr>
<tr>
<td>COMPRESSION</td>
<td>AUTO: D. Range Compression automatically works.</td>
</tr>
<tr>
<td></td>
<td>ON: D. Range Compression always works.</td>
</tr>
</tbody>
</table>

#### OTHERS

<table>
<thead>
<tr>
<th>Items</th>
<th>Contents (initial setting)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESUME</td>
<td>Select ON/OFF. (page 18)</td>
</tr>
<tr>
<td>ON SCREEN GUIDE</td>
<td>Select ON/OFF. (page 15)</td>
</tr>
<tr>
<td>AV COMPULINK MODE</td>
<td>(page 36)</td>
</tr>
<tr>
<td>DVD1</td>
<td>Connect to the video-3 input on the TV set or the DVD input on the AV amplifier.</td>
</tr>
<tr>
<td>DVD2</td>
<td>Connect to the video-1 input of the TV set.</td>
</tr>
<tr>
<td>DVD3</td>
<td>Connect to the video-2 input of the TV set.</td>
</tr>
<tr>
<td>PARENTAL LOCK</td>
<td>Set the Parental Lock function to cut off violent scenes or replace the scenes with others. (This is effective only for discs equipped with the Parental Lock function.)</td>
</tr>
<tr>
<td>COUNTRY CODE</td>
<td>Select your country.</td>
</tr>
<tr>
<td>SET LEVEL</td>
<td>The restriction is stricter as the number becomes smaller. “NONE” is no restriction.</td>
</tr>
<tr>
<td>PASSWORD (essential)</td>
<td>Enter four-digit number as your password using the number buttons (1-9, 0) every time. (Enter “8888” if you forget your password.) The password is required at the time of playback.</td>
</tr>
<tr>
<td></td>
<td>• If you enter a wrong password three times, “EXIT” will be automatically selected.</td>
</tr>
</tbody>
</table>

### List of relationships of DIGITAL AUDIO OUTPUT preference items and output signal

<table>
<thead>
<tr>
<th>Playback disc</th>
<th>DIGITAL AUDIO OUTPUT preference</th>
</tr>
</thead>
<tbody>
<tr>
<td>48 kHz, 16/20/24 bits</td>
<td>Stream/PCM</td>
</tr>
<tr>
<td>Linear PCM DVD VIDEO</td>
<td>48 kHz, 16 bits stereo linear PCM</td>
</tr>
<tr>
<td>96 kHz linear PCM DVD VIDEO</td>
<td></td>
</tr>
<tr>
<td>48/96/192 kHz, 16/20/24 bits linear PCM DVD AUDIO</td>
<td>48 kHz, 16 bits stereo linear PCM</td>
</tr>
<tr>
<td>44.1/88.2/176.4 kHz, 16/20/24 bits linear PCM DVD AUDIO</td>
<td>44.1 kHz, 16 bits stereo linear PCM</td>
</tr>
<tr>
<td>DTS DVD VIDEO</td>
<td>DTS bit stream</td>
</tr>
<tr>
<td>DOLBY DIGITAL DVD VIDEO/</td>
<td>48 kHz, 16 bits stereo linear PCM</td>
</tr>
<tr>
<td>DVD AUDIO</td>
<td>DOLBY DIGITAL bit stream</td>
</tr>
<tr>
<td>CD/VCD/SVCD</td>
<td>44.1 kHz, 16 bits stereo linear PCM/48kHz, 16 bits linear PCM</td>
</tr>
<tr>
<td>DTS CD</td>
<td>No output</td>
</tr>
<tr>
<td>MP3 disc</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE**

- For a DVD VIDEO without content protection set, there is a 20 bit or 24 bit output at the digital audio output terminal.
<table>
<thead>
<tr>
<th>Country/Area codes</th>
<th>Country/Area codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD  Andorra</td>
<td>LC  Saint Lucia</td>
</tr>
<tr>
<td>AE  United Arab Emirates</td>
<td>LI  Liechtenstein</td>
</tr>
<tr>
<td>AF  Afghanistan</td>
<td>LX  Sri Lanka</td>
</tr>
<tr>
<td>AG  Antigua and Barbuda</td>
<td>LR  Liberia</td>
</tr>
<tr>
<td>AI  Anguilla</td>
<td>LS  Lesotho</td>
</tr>
<tr>
<td>AL  Albania</td>
<td>LT  Lithuania</td>
</tr>
<tr>
<td>AM  Armenia</td>
<td>LU  Luxembourg</td>
</tr>
<tr>
<td>AN  Netherlands Antilles</td>
<td>LV  Latvia</td>
</tr>
<tr>
<td>AO  Angola</td>
<td>LY  Libyan Arab Jamahiriya</td>
</tr>
<tr>
<td>AR  Argentina</td>
<td>MA  Morocco</td>
</tr>
<tr>
<td>AS  American Samoa</td>
<td>MC  Monaco</td>
</tr>
<tr>
<td>AT  Austria</td>
<td>MD  Moldova, Republic of</td>
</tr>
<tr>
<td>AU  Australia</td>
<td>MG  Madagascar</td>
</tr>
<tr>
<td>AW  Aruba</td>
<td>MH  Marshall Islands</td>
</tr>
<tr>
<td>AZ  Azerbaijan</td>
<td>ML  Mali</td>
</tr>
<tr>
<td>BA  Bosnia and Herzegovina</td>
<td>MM  Myanmar</td>
</tr>
<tr>
<td>BB  Barbados</td>
<td>MN  Mongolia</td>
</tr>
<tr>
<td>BD  Bangladesh</td>
<td>MO  Macau</td>
</tr>
<tr>
<td>BE  Belgium</td>
<td>MP  Northern Mariana Islands</td>
</tr>
<tr>
<td>BF  Burkina Faso</td>
<td>MQ  Martinique</td>
</tr>
<tr>
<td>BG  Bulgaria</td>
<td>MR  Mauritania</td>
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<tr>
<td>BH  Bahrain</td>
<td>MS  Montserrat</td>
</tr>
<tr>
<td>BI  Burundi</td>
<td>MT  Malta</td>
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<td>BJ  Benin</td>
<td>MU  Mauritius</td>
</tr>
<tr>
<td>BM  Bermuda</td>
<td>MV  Maldives</td>
</tr>
<tr>
<td>BN  Brunei Darussalam</td>
<td>MW  Malawi</td>
</tr>
<tr>
<td>BO  Bolivia</td>
<td>MX  Mexico</td>
</tr>
<tr>
<td>BR  Brazil</td>
<td>MY  Malaysia</td>
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<tr>
<td>BS  Bahamas</td>
<td>MZ  Mozambique</td>
</tr>
<tr>
<td>BT  Bhutan</td>
<td>NA  Namibia</td>
</tr>
<tr>
<td>BV  Bouvet Island</td>
<td>NC  New Caledonia</td>
</tr>
<tr>
<td>BW  Botswana</td>
<td>NE  Niger</td>
</tr>
<tr>
<td>BY  Belarus</td>
<td>NF  Norfolk Island</td>
</tr>
<tr>
<td>BZ  Belize</td>
<td>NG  Nigeria</td>
</tr>
<tr>
<td>CA  Canada</td>
<td>NI  Nicaragua</td>
</tr>
<tr>
<td>CC  Cocos (Keeling) Islands</td>
<td>NL  Netherlands</td>
</tr>
<tr>
<td>CD  Central African Republic</td>
<td>NO  Norway</td>
</tr>
<tr>
<td>CG  Congo</td>
<td>NP  Nepal</td>
</tr>
<tr>
<td>CH  Switzerland</td>
<td>NR  Nauru</td>
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<tr>
<td>CI  Côte d'Ivoire</td>
<td>NU  Niue</td>
</tr>
<tr>
<td>CK  Cook Islands</td>
<td>NZ  New Zealand</td>
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<td>CM  Cameroon</td>
<td>PA  Panama</td>
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<td>CR  Costa Rica</td>
<td>PG  Papua New Guinea</td>
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<td>CU  Cuba</td>
<td>PH  Philippines</td>
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<td>CV  Cape Verde</td>
<td>PK  Pakistan</td>
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<tr>
<td>CX  Christmas Island</td>
<td>PL  Poland</td>
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<tr>
<td>CY  Cyprus</td>
<td>PM  Saint Pierre and Miquelon</td>
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<tr>
<td>CZ  Czech Republic</td>
<td>PR  Puerto Rico</td>
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<td>DE  Germany</td>
<td>PT  Portugal</td>
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<tr>
<td>DJ  Djibouti</td>
<td>PW  Palau</td>
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<tr>
<td>DK  Denmark</td>
<td>PY  Paraguay</td>
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<tr>
<td>DM  Dominica</td>
<td>QA  Qatar</td>
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<tr>
<td>DO  Dominican Republic</td>
<td>RE  Reunion</td>
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<tr>
<td>DZ  Algeria</td>
<td>RO  Romania</td>
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<tr>
<td>EC  Ecuador</td>
<td>RU  Russian Federation</td>
</tr>
<tr>
<td>EE  Estonia</td>
<td>RW  Rwanda</td>
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<tr>
<td>EG  Egypt</td>
<td>SA  Saudi Arabia</td>
</tr>
<tr>
<td>EH  Western Sahara</td>
<td>SB  Solomon Islands</td>
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<td>ER  Enleea</td>
<td>SC  Seychelles</td>
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<tr>
<td>SD  Sudan</td>
<td>SG  Singapore</td>
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<tr>
<td>SE  Sweden</td>
<td>SI  Slovenia</td>
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<tr>
<td>SG  Singapore</td>
<td>SJ  Svalbard and Jan Mayen</td>
</tr>
<tr>
<td>SH  Saint Helena</td>
<td>SK  Slovakia</td>
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<tr>
<td>SI  Slovenia</td>
<td>SL  Sierra Leone</td>
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<tr>
<td>SN  Senegal</td>
<td>SM  San Marino</td>
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<tr>
<td>SO  Somalia</td>
<td>ST  Svalbard and Jan Mayen</td>
</tr>
<tr>
<td>SR  Suriname</td>
<td>SY  Syrian Arab Republic</td>
</tr>
<tr>
<td>SS  Swaziland</td>
<td>TZ  Tanzania, United Republic of</td>
</tr>
<tr>
<td>TC  Turks and Caicos Islands</td>
<td>UG  Uganda</td>
</tr>
<tr>
<td>TF  French Southern Territories</td>
<td>UK  United Kingdom</td>
</tr>
<tr>
<td>TG  Togo</td>
<td>UM  United States Minor Outlying Islands</td>
</tr>
<tr>
<td>TH  Thailand</td>
<td>US  United States</td>
</tr>
<tr>
<td>TJ  Tajikistan</td>
<td>UY  Uruguay</td>
</tr>
<tr>
<td>TK  Turkmenistan</td>
<td>UZ  Uzbekistan</td>
</tr>
<tr>
<td>TO  Tonga</td>
<td>VA  Vatican City State (Holy See)</td>
</tr>
<tr>
<td>TP  East Timor</td>
<td>VC  Saint Vincent and the Grenadines</td>
</tr>
<tr>
<td>TR  Turkey</td>
<td>VE  Venezuela</td>
</tr>
<tr>
<td>TV  Tuvalu</td>
<td>VG  Virgin Islands (British)</td>
</tr>
<tr>
<td>TW  Taiwan</td>
<td>VI  Virgin Islands (U.S.)</td>
</tr>
<tr>
<td>TZ  Tanzania, United Republic of</td>
<td>VN  Viet Nam</td>
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<tr>
<td>UG  Uganda</td>
<td>VU  Vanuatu</td>
</tr>
<tr>
<td>UM  United States Minor Outlying Islands</td>
<td>WF  Wallis and Futuna Islands</td>
</tr>
<tr>
<td>US  United States</td>
<td>WS  Samoa</td>
</tr>
<tr>
<td>UA  Ukraine</td>
<td>YE  Yemen</td>
</tr>
<tr>
<td>UK  United Kingdom</td>
<td>YT  Mayotte</td>
</tr>
<tr>
<td>UY  Uruguay</td>
<td>YU  Yugoslav</td>
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<tr>
<td>UZ  Uzbekistan</td>
<td>ZA  South Africa</td>
</tr>
<tr>
<td>VA  Vatican City State (Holy See)</td>
<td>ZM  Zambia</td>
</tr>
<tr>
<td>VC  Saint Vincent and the Grenadines</td>
<td>ZR  Zaire</td>
</tr>
<tr>
<td>VE  Venezuela</td>
<td>ZW  Zimbabwe</td>
</tr>
<tr>
<td>VG  Virgin Islands (British)</td>
<td></td>
</tr>
</tbody>
</table>
You can tune in to FM or AM.

**Selecting a station**

1. **Press FM/AM.**
   
   Each time you press the button, the band will be alternated between FM and AM.
   
   **Example:**

   ![Frequency Display](example_frequency.png)

   **FM**

2. **Press TUNING ◀ or TUNING ▶ to select the station (frequency).**
   
   **Automatic tuning:**
   
   Hold down TUNING ◀ or TUNING ▶ until the system starts searching, and then release the button.
   
   When a station of sufficient signal strength is tuned in to, the system stops searching automatically.
   
   To stop searching manually, press TUNING ◀ or TUNING ▶.
   
   **Manual tuning:**
   
   Each time you press TUNING ◀ or TUNING ▶, the frequency changes.
   
   - When an FM stereo program is received, the “ST” (Stereo) indicator lights.
   - You can also select the station with cursor ▲/▼.

   **NOTE**
   
   *If the stereo FM program currently tuned in is noisy, you can improve the reception by pressing FM MODE to switch to the monaural mode (“MONO” lights). If you press FM MODE again, or tune in to another station, the receiving mode returns automatically to the stereo mode.*
Presetting stations in the system allows you to easily tune in to a station.

NOTE
Set the remote control mode selector to AUDIO before using the number buttons.

Presetting stations

The system stores up to 30 FM stations and up to 15 AM stations.

1 Select a station you want to store (page 32 for how to select).

2 Press MEMORY.
Figures (memory number) blink on the display window for about 5 seconds.

3 Select the number you want to store by pressing cursor ←/→ while the memory number is blinking.
   • You can also select the number by using the number buttons.
   • Refer to “How to use the number buttons” (page 15).

4 Press MEMORY or ENTER while the selected number is blinking.
   “SET” will be displayed and the selected station will be stored.

NOTE
Storing a new station to a used number erases the previously stored station.

Tuning in to a preset station

1 Press FM/AM repeatedly to select either FM or AM.

2 Press the number buttons to select the memory number of a station you want to tune in to.
Refer to “How to use the number buttons” (page 15).
You can also select by pressing cursor ←/→.
Listening to the sound of other audio device

1. Connect the other audio device to this system in advance (☞ page 10).

2. Press AUX.
   The source changes to AUX.

3. Play the other audio device.
   For details, refer to the manual of the device connected.

4. Adjust the volume and the sound quality of the system (☞ page 16).

Adjust the sound input level of the audio device

You can adjust the sound input level of another audio device connected to the AUX jack.

1. Press AUX.
   The source changes to AUX.

2. Hold down MEMORY until an input level is displayed.
   Each time you hold down the button, it switches as follows:
   LEVEL 1: Select this normally.
   LEVEL 2: Select this when the input level from the other device is too high and the sound is distorted.

   The initial setting is “LEVEL1”.

Auto Standby

1. If there is no operation for 3 minutes while the disc is stopped, the power will be automatically turned off.

   Press A.STANDBY during playback or while the disc is stopped, or no disc is loaded (“NO DISC” is displayed).

   “A.S.ON” (Auto Standby On) and “A.STANDBY” will be lit on the display window on the main unit.

   When a stopped state is entered (after playback is finished, for example), “A.STANDBY” starts blinking.
   This means that the power will be turned off automatically if there is no operation for 3 minutes. And, 20 seconds before the power is turned off, “POWER OFF” will appear blinking.

Releasing Auto Standby

Press A.STANDBY.

“A.S.OFF” (Auto Standby Off) will appear and “A.STANDBY” will be turned off on the display window on the main unit.

NOTE

When the source is FM/AM or AUX, Auto Standby does not work.
**Sleep Timer**

When the time you specify elapses, the system will be turned off by itself.

**Press SLEEP.**

Each time you press the button, the time indicated on the display window on the main unit changes (in minutes).

**Example:** When Sleep Timer is set to 60 minutes

Sleep Timer will be automatically set in a few seconds, and the indication will disappear.

**NOTE**

*When Sleep Timer is set, the display window darkens automatically.*

**Changing the time**

Reselect the time by pressing SLEEP repeatedly.

**Confirming the time**

Press SLEEP once while Sleep Timer is set.

**Releasing**

Press SLEEP repeatedly until “OFF” appears.

**NOTE**

*Sleep Timer will also be released when the power is turned off.*

---

**Tray Lock**

You can lock the disc tray to prevent the disc from being ejected.

**Setting**

Turn off the power. And while holding down ■ (Stop) on the main unit, press ▲ (Open/Close). “LOCKED” appears on the display window on the main unit.

**Releasing**

Carry out the same operations as those for setting. “UNLOCKED” appears on the display window on the main unit.
Using AV COMPU LINK

When the TV set or device to be connected is a JVC product equipped with the AV COMPU LINK-II or -III jack, connecting them to the AV COMPU LINK jack on the system will allow you to control the other devices by operating one device.

Connection and setting

NOTE
- Refer to “Others” (page 30) to set the AV COMPU LINK mode.
- Also carefully read manuals of devices to be connected.

Connection with a TV set

- Connect to the Video 3 (DVD) input jack on your TV set. If Video 3 is for DV/Movie input, read the following descriptions:

Connection with a TV set and a VCR

- When using with initial settings, connect to Video 3 (if not set to DV/Movie input). Set the remote-control code to “A”.

Connection with a TV set and an AV amplifier

- Also read manuals of the AV amplifier.

NOTE
- Connecting DVD sound output to a sound input jack for any device other than a DVD disables proper operation.
- When connecting component video output to a TV set, change setting of the AV COMPU LINK mode in this system to “DVD 1”. Do not connect to the S-video jack on the AV amplifier.

Operations

1. Turn on the main power of the TV set.
2. Insert a disc or videotape into the source device (the system or a VCR).
3. Press the play button on the source device.
   - The TV set will be turned on.
   - TV input will be switched to external input (Video 1, 2 or 3) of the source device.
   - The AV amplifier will be turned on.
   - The source of the AV amplifier will be switched to the device on which the play button has been pressed.

<table>
<thead>
<tr>
<th>TV input jack</th>
<th>AV COMPU LINK mode</th>
<th>Remote-control code of VCR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video 1</td>
<td>DVD 2</td>
<td>B</td>
</tr>
<tr>
<td>Video 2</td>
<td>DVD 3</td>
<td>A</td>
</tr>
</tbody>
</table>
When you encounter a problem that seems to be a fault, check the following points before contacting your JVC service center:

**Power source**

- **Power does not come on.**
  - The power cord is not connected to the main unit or an AC outlet.
    → Connect the power cord correctly. (⇔ page 11)

**Operation**

- **You cannot operate any button.**
  - Some specific operations may be inhibited for some discs.
  - The dry-cell batteries have run out.
    → Replace the batteries. (⇔ page 6)

- **A disc cannot be played back.**
  - In the case of DVD VIDEO discs
    → Check the Region Code number of the discs. (⇔ page 3)
  - “PLAYABLE Err” is displayed on the display window.
    It is not a disc that can be played on this system.
    → Check the disc type. (⇔ page 3)
  - Parental Lock is set. (⇔ page 30)

**About images**

- **No picture appears.**
  - The video cord is not connected correctly.
    → ⇔ page 11
  - Both of the component video jack and S-video jack are connected.
    → Connect either. (⇔ page 11)

- **The picture is distorted.**
  - A VCR is connected between the main unit and the TV set.
    → Connect the main unit directly to the TV set. (⇔ page 11)
  - Although this system is connected to a non-Progressive TV set, DVD’s scan mode is set to “PROGRESS”.
    → Set the scan mode to “INTER.”.
    (⇔ page 26)

- **The screen size is abnormal.**
  - The screen size is set improperly.
    → Set “MONITOR TYPE” according to the TV set you are using. (⇔ page 29)

**About sound**

- **There is no sound.**
  - Speakers are not connected correctly.
    → ⇔ page 9
  - The sound is muted.
    → ⇔ page 16
  - “NO AUDIO” is displayed on the display window.
    The disc may have been produced through illegal copying.
    → Confirm at the store where you bought the disc.

- **The sound is weak compared with TV or Video.**
  - “DVD LEVEL” is set to “NOR”.
    → Set to other than “NOR”. (⇔ page 26)

- **The sound is distorted.**
  - The volume is turned up too high.
    → Turn down the volume. (⇔ page 16)

- **No sound comes out of the subwoofer.**
  - “SUB WFR” is turned off.
    → Press S.WFR OUT to turn on. (⇔ page 10)

**About radio**

- **The sound is noisy while receiving./Receiving is disabled.**
  - The antenna is not connected correctly.
    → Connect the antenna correctly. (⇔ page 8)
Troubleshooting (continued)

Others

■ It is not possible to switch audio or subtitles between languages.
  • The disc does not contain 2 or more languages.
    ➔ If only a single language is recorded on the disc, switching to another language is impossible. (☞ page 24)

■ No subtitle is displayed.
  • The disc does not contain any subtitles.
    ➔ A DVD VIDEO without subtitles cannot display any subtitles.
  • The subtitle language is set to “OFF”.
    ➔ Specify a language. (☞ page 29)
  • Before or after A point or B point in A-B Repeat Playback, no subtitle may be displayed.

■ The disc cannot be ejected.
  • Tray Lock is set.
    ➔ ☜ page 35

■ “TRAY Err” is displayed on the display window.
  • The tray is not open fully due to an obstacle.
    ➔ Close the tray and remove the obstacle.

■ “LR ONLY” is displayed on the display window (for a DVD AUDIO).
  • Because, for the track being played back, down mix is inhibited for multi-channel sound, the sound of L and R is output directly
    (a normal action).

If the system does not work properly despite correction measures above

Many functions of this system are implemented by microcomputers. If pressing any button does not result in the normal action, disconnect the power plug from the outlet, wait for a while, and reconnect the system.

Language codes

<table>
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### General
- **Power source:** AC 120 V \( \sim \) 60 Hz
- **Power consumption:**
  - 24 W (in operation)
  - 0.8 W (on standby)
- **Weight:** 3.0 kg (6.7 lbs)
- **External dimensions** (W \( \times \) H \( \times \) D):
  - 232 mm \( \times \) 100 mm \( \times \) 269 mm
  - (9\( \frac{1}{16} \) inches \( \times \) 3\( \frac{15}{16} \) inches \( \times \) 10\( \frac{5}{8} \) inches)

### DVD player
- **Playable discs:** DVD VIDEO, DVD AUDIO, VCD, Super VCD, CD, CD-R/RW (CD, VCD, MP3, JPEG format), DVD-R/RW (video format)

### Video output
- **Color system:** NTSC
- **Horizontal resolution:** 500 lines
- **Composite \( \times \) 1:**
  - 1.0 V (p-p)/75 \( \Omega \), synchronization negative
- **S-video \( \times \) 1:**
  - Y output: 1.0 V (p-p)/75 \( \Omega \), synchronization negative
  - C output: 0.286 V (p-p)/75 \( \Omega \)
- **Component \( \times \) 1:**
  - Y output: 1.0 V (p-p)/75 \( \Omega \)
  - Pb/Pb output: 0.7 V (p-p)/75 \( \Omega \)

### Audio output
- **Analog sound output:** Speakers \( \times \) 2
  - **Output power:** 30 W per channel, min. RMS, at 4 \( \Omega \) at 1 kHz with no more than 10% total harmonic distortion
    - **Fitting impedance:** 4 \( \Omega \) to 16 \( \Omega \)
    - **Headphones \( \times \) 1:** 11 mW/32 \( \Omega \)
    - **Fitting impedance:** 16 \( \Omega \) to 1 \( \Omega \)
    - **Subwoofer \( \times \) 1:** 500 mVrms/10 \( \Omega \)
    - **Digital sound output:** Optical \( \times \) 1:
      - \(-21 \text{ dBm} \) to \(-15 \text{ dBm}\)

### Audio input
- **Sound input:** AUX \( \times \) 1
- **Level 1:** 250 mV/50 k\( \Omega \)
- **Level 2:** 500 mV/50 k\( \Omega \)

### Tuner
- **FM tuner:**
  - **Receiving frequency:** 87.5 MHz to 108.0 MHz
  - **Antenna:** 75 \( \Omega \)- unbalanced type
- **AM tuner:**
  - **Receiving frequency:** 530 kHz to 1710 kHz
  - **Antenna:** External antenna jack (loop antenna)

### Speaker
- **Type:** 1-way bass-reflex type
- **Speaker:** 8 cm (3\( \frac{3}{16} \) inches) cone \( \times \) 1
- **Power handling capacity:** 30 W
- **Impedance:** 4 \( \Omega \)
- **Sound pressure level:** 81 dB/W-m
- **Dimension (W \( \times \) H \( \times \) D):**
  - 120 mm \( \times \) 161 mm \( \times \) 239 mm
  - (4\( \frac{3}{4} \) inches \( \times \) 6\( \frac{1}{2} \) inches \( \times \) 9\( \frac{7}{16} \) inches)
- **Weight (1 unit):** 1.6 kg (3.6 lbs)

### Other output
- **AV COMPU LINK \( \times \) 2 (\( \odot \)3.5)

Designs and Specifications are subject to change without notice.
TO OUR VALUED CUSTOMER

THANK YOU FOR PURCHASING THIS JVC PRODUCT.
WE WANT TO HELP YOU ACHIEVE A PERFECT EXPERIENCE.

NEED HELP ON HOW TO HOOK UP?
NEED ASSISTANCE ON HOW TO OPERATE?
NEED TO LOCATE A JVC SERVICE CENTER?
LIKE TO PURCHASE ACCESSORIES?

JVC® IS HERE TO HELP!
TOLL FREE: 1(800)252-5722
http://www.jvc.com

Remember to retain your Bill of Sale for Warranty Service.

Do not attempt to service the product yourself

Caution
To prevent electrical shock, do not open the cabinet.
There are no user serviceable parts inside.
Please refer to qualified service personnel for repairs.
JVC®

LIMITED WARRANTY

ONLY FOR PRODUCT PURCHASED IN U.S.A.  USA ONLY

JVC COMPANY OF AMERICA (JVC) warrants this product and all parts thereof, except as set forth below only TO THE ORIGINAL RETAIL PURCHASER to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original purchase for the period shown below, ("The Warranty Period")

<table>
<thead>
<tr>
<th>PARTS</th>
<th>1 YR</th>
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<tbody>
<tr>
<td>LABOR</td>
<td>90 DAYS</td>
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THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN THE COMMONWEALTH OF PUERTO RICO.

WHAT WE WILL DO:

If this product is found to be defective within the warranty period, JVC will repair or replace defective parts with new or rebuilt equivalents at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products may be brought to a JVC authorized service center on a carry-in basis. Color televisions with a screen size of 27" or greater qualify for in-home service. In such cases, a technician will come to your home and either repair the TV there or remove and return it if it cannot be repaired in your home.

WHAT YOU MUST DO FOR WARRANTY SERVICE:

Please do not return your product to the retailer.

Instead, return your product to the JVC authorized service center nearest you. If shipping the product to the service center, please be sure to include all accessories and provide a brief description of the problem(s). Please call 1-800-252-5722 to locate the nearest JVC authorized service center. Service locations can also be obtained from our website http://www.jvc.com. If your product qualifies for in-home service, the service representative will require clear access to the product.

If you have any questions concerning your JVC Product, please contact our Customer Relations Department at 800-252-5722.

WHAT IS NOT COVERED:

This limited warranty provided by JVC does not cover:

1. Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if affixed to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, defaced or removed;
2. Initial installation and installation and removal from cabinets or mounting systems;
3. Operational adjustments covered in the Owner’s Manual, normal maintenance, video and audio head cleaning;
4. Damage that occurs in shipment, due to act of God, and cosmetic damage;  
5. Signal reception problems and failures due to line power surge;
6. Video Pick-up Tubes/CCD Image Sensors are covered for 80 days from the date of purchase;
7. Accessories;
8. Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase);
9. Products used for commercial purposes, including, but not limited to rental.

There are no express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

JVC SHALL NOT BE LIABLE FOR ANY LOSS OF USE OF THE PRODUCT, INCONVENIENCE, OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL, OR CONSEQUENTIAL, (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential damages or limitations on how long an implied warranty lasts, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

JVC COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.
1700 Valley Road
Wayne, NJ 07470
http://www.jvc.com

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY. THIS WARRANTY DOES NOT APPLY. FOR DETAIL OF REFURBISHED PRODUCT WARRANTY, PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.

For customer use:

Enter below the Model No. and Serial No. which is located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. : Serial No. :

Purchase date : Name of dealer :