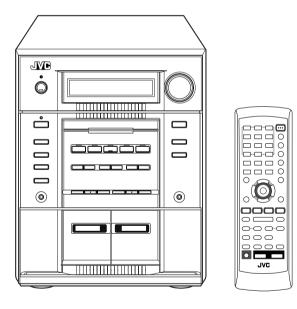
# JVC



# COMPACT COMPONENT SYSTEM

# **CA-MXJD5**





INSTRUCTIONS

# Warnings, Cautions and Others

#### Caution-0/I (STANDBY/ON) button!

Disconnect the mains plug to shut the power off completely. The O/I (STANDBY/ON) button in any position does not disconnect the mains line. The power can be remote controlled.

#### 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

Do not block the ventilation openings or holes.

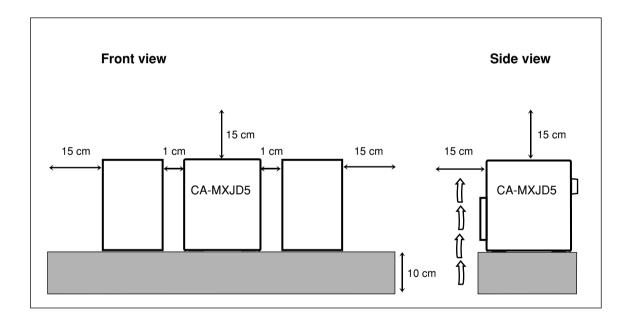
(If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)

- 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.

#### **CAUTION: Proper Ventilation**

To avoid risk of electric shock and fire, and to prevent damage, locate the apparatus as follows:

- 1. Front: No obstructions and open spacing.
- 2. Sides/ Top/ Back: No obstructions should be placed in the areas shown by the dimensions below.
- 3. Bottom: Place on a level surface. Maintain an adequate air path for ventilation by placing on a stand with a height of 10 cm or more.



#### **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.

<b>CAUTION :</b> Visible and invisible	ADVARSEL : Synlig og usynlig	VARNING : Synlig och	VARO : Avattaessa ja suojalukitus
			ohitettuna tai viallisena olet alttiina
interlock failed or defeated.	åben eller interlocken fejler.	den öppnas och spärren är	näkyvälle ja näkymättömälle
AVOID DIRECT EXPOSURE TO	Undgå direkte eksponering til	urkopplad. Betrakta ej	lasersäteilylle. Vältä säteen
BEAM. (e)	stråling. (d)	strålen. (s)	kohdistumista suoraan itseesi. (f)

# Contents

Introduction2
Precautions
Getting Started
Step 1: Unpack
Step 2: Prepare the Remote Control
Step 3: Hook Up4
Setting the Speakers
Before Operating the System10
Playable Disc Types
Parts Index11
About the Display Indication12
Daily Operations—Playback14
Canceling the Demonstration
Listening to the Radio
Playing Back a Disc16
Playing Back a Tape18
Daily Operations—Sound&Other Adjustments 19
Adjusting the Volume
Reinforcing the Bass Sound19
Adjusting the Front Speaker Output Balance20
Selecting the Sound Modes
Creating Your Own Sound Modes—User Mode
Using Surround Mode21 Presetting Automatic DVD Video
Sound Increase Level
Changing the Scanning Mode
Changing the Picture Tone
Changing the Display Brightness
Setting the Clock
Turning Off the Power Automatically23
Unique DVD/VCD Operations24
Selecting the Sound Track
Selecting the Subtitle Language
Selecting a View Angle25
Selecting a Still Pictures on a DVD Audio
Playing Back a Bonus Group on a DVD Audio
Special Picture Playback

Advanced Disc Operations	
Programming the Playing Order—Program Play	
Playing at Random—Random Play	
Playing Repeatedly	
Prohibiting Disc Ejection-Child Lock	

On-Screen Disc Operations	
About the On-screen Bar	
Operations Using the On-screen Bar	
Operations on the CONTROL Screen	
Advanced Tape Operations	
Recording on a Tape	
Dubbing Tapes	
Synchronized Disc Recording	36
Timer Operations	
Setting the Timer	
Timer Priority	
Set up Menu Operations	
Operating Procedure	
LANGUAGE Set up Menu	
■PICTURE Set up Menu	
■AUDIO Set up Menu	
■SPK. SETTING Set up Menu	42
■OTHERS Set up Menu	43
Restricting the Review—Parental Lock	44
Operating the TV	46
Operating TV	
Additional Information	47
Learning More about This System	
Maintenance	
Troubleshooting	
Language Code List	
Country/Area codes list for Parental Lock	
OPTICAL DIGITAL OUTPUT Signals	53
Specifications	

# Introduction



# Precautions

#### Installation

- Install in a place which is level, dry and neither too hot nor too cold—between 5°C and 35°C.
- Install the System in a location with adequate ventilation to prevent internal heat buildup in the System.



DO NOT install the System in a location near heat sources, or in a place subject to direct sunlight, excessive dust or vibration.

- Leave sufficient distance between the System and the TV.
- Keep the speakers away from the TV to avoid interference with TV.

#### **Power sources**

• When unplugging the System from the wall outlet, always pull on the plug, not the AC power cord.



DO NOT handle the AC power cord with wet hands.

#### Moisture condensation

Moisture may condense on the lenses inside the System in the following cases:

- After starting to heat the room
- In a damp room

• If the System is brought directly from a cold to a warm place Should this occur, the System may malfunction. In this case, leave the System turned on for a few hours until the moisture evaporates, unplug the AC power cord, then plug it in again.

#### Internal heat

• A cooling fan is inside the unit to prevent heat buildup.

#### For safety, observe the following carefully:



• Make sure there is good ventilation around the unit. Poor ventilation could overheat and damage the unit.

• DO NOT block the ventilation openings or holes. If they are blocked by a newspaper or cloth, etc., the heat may not be able to get out.

#### Others

• Should any metallic object or liquid fall into the System, unplug the AC power cord and consult your dealer before operating any further.



DO NOT disassemble the System since there are no user serviceable parts inside.

• If you are not going to operate the System for an extended period of time, unplug the AC power cord from the wall outlet.

If anything goes wrong, unplug the AC power cord and consult your dealer.

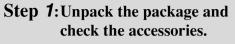
# How to Read This Manual

To make the explanations in this manual as simple and easyto-understand as possible, we have adapted the following methods:

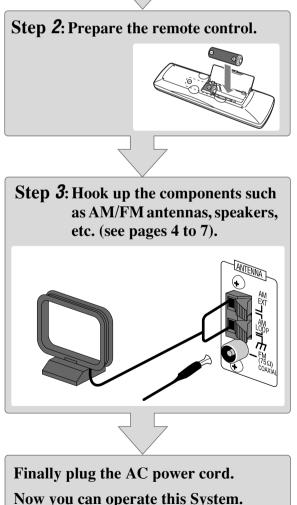
- Button and control operations are explained as listed in the table below. In this manual, the operations using the remote control is mainly explained; however, you can use the buttons and controls on the main unit if they have the same (or similar) name and marks.
- Some related tips and notes are explained later in the sections "Learning More about This System" and "Troubleshooting," but not in the same section explaining the operations ( **INFO** indicates that the content has some informations). If you want to know more about the functions, or if you have a doubt about the function, go to these sections and you will find your answer there.

		Indicates that you press the button
K		briefly.
Ĩ, Ţ		Indicates that you press the button <b>briefly and repeatedly</b> until an option you want is selected.
		Indicates that you press one of the buttons.
2 sec.		<ul> <li>Indicates that you press and hold the button for a specified period.</li> <li>The number inside the arrow indicates the period of press (in this example, 2 seconds).</li> <li>If no number is inside the arrow, press and hold until the entire procedure is complete or until you get a result you want.</li> </ul>
	١	Indicates that you turn the control toward the specified direction(s).
Remote ONLY >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	Indicates that this operation is only possible using the remote control.	
Main Unit ONLY	Main Unit ONLYIndicates that this operation is only possible using the buttons and controls on the main unit.	

# **Getting Started**







# Step 1: Unpack

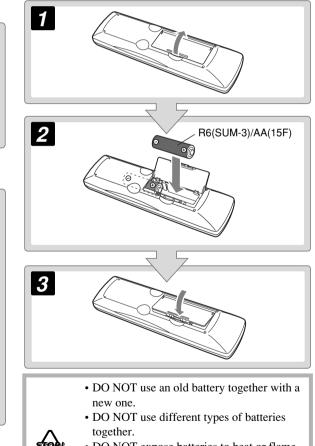
After unpacking, check to be sure that you have all the following items. The number in parentheses indicates the quantity of each piece supplied.

- FM antenna (1)
- AM loop antenna (1)
- Composite video cord (1)
- Remote control (1)
- Batteries (2)
- Core filter (1)

If any item is missing, consult your dealer immediately.

# Step 2: Prepare the Remote Control

Insert the batteries into the remote control by matching the polarity (+ and –) correctly.



DO NOT expose batteries to heat or flame.
DO NOT leave the batteries in the battery compartment when you are not going to use the remote control for an extended period of time. Otherwise, the remote control will be damaged from battery leakage.

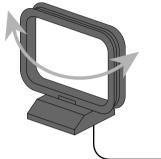
#### Step 3: Hook Up

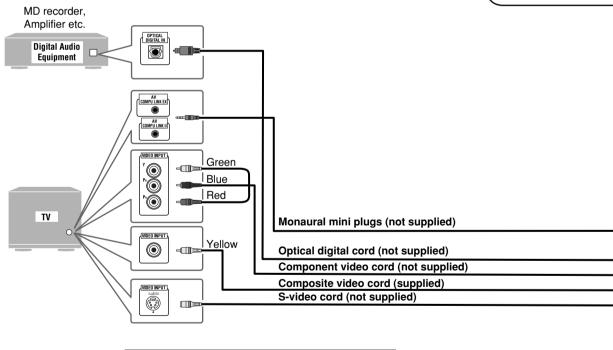
If you need more detailed information, see pages 6 and 7.

#### Turn the power off to all components before connections.

Illustrations of the input/output terminals below are typical examples.

When you connect other components, refer also to their manuals since the terminal names actually printed on the rear may vary. AM loop antenna (supplied) Turn it until the best reception is obtained.



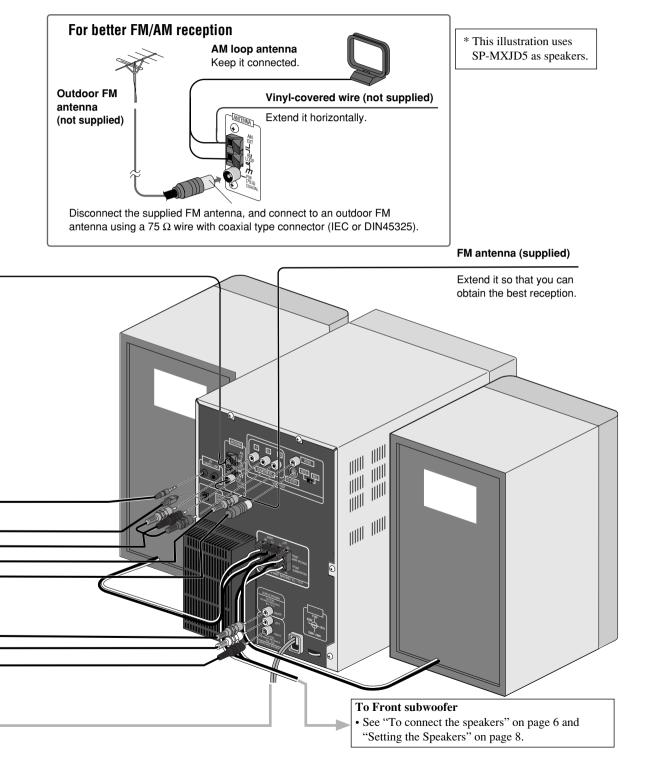


#### To center speaker/Surround speaker

• See "To connect the speakers" on page 6 and "Setting the Speakers" on page 8.

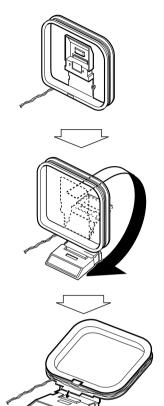
#### To a wall outlet

Plug the AC power cord only after all connections are complete.

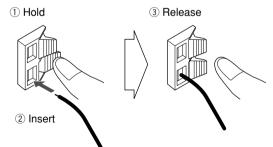


#### To assemble and connect the AM loop antenna

To assemble the AM loop antenna



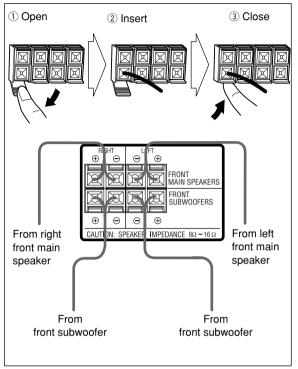
#### To connect the AM loop antenna and speaker cords



- If the AM loop antenna wire or speaker cords are covered with vinyl, remove the vinyl to expose the tip of the antenna by twisting the vinyl.
- Make sure the antenna conductors do not touch any other terminals, connecting cords and power cord. Also, keep the antennas away from metallic parts of the System, connecting cords, and the AC power cord. This could cause poor reception.

#### To connect the speakers

To connect the speaker cords



• When connecting the speaker cords, match the polarity of the speaker terminals: (+) to (+) and (-) to (-).

Speaker	Terminal color	
	(+)	(-)
Front main speakers	Blue	Black
Front subwoofers	Red	Black

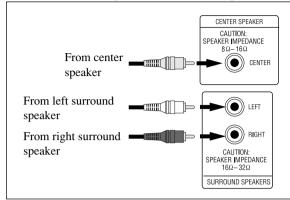
• Use only speakers with the same speaker impedance as indicated by the speaker terminals on the rear of the unit.



• DO NOT connect more than one speaker to each terminal.

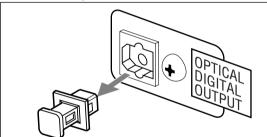
• DO NOT push or pull the speakers as this will damage the foot spacers at the bottom of the speakers.

#### To connect a center speaker and surround speakers



- Connect the center speaker to the CENTER jack.
- Connect the left surround speaker to the LEFT jack.
- Connect the right surround speaker to the RIGHT jack.
- Use only speakers with the same speaker impedance as indicated by the speaker terminals on the rear of the unit.

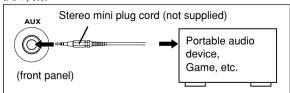
#### To connect digital audio



Before connecting optical digital cord, remove the protective cap from the OPTICAL DIGITAL OUTPUT terminal.

#### To connect other equipment

By using a stereo mini plug cord (not supplied), you can connect equipment with analog audio output jacks such as an MD player, a TV, etc.



If the audio output on the other equipment is not stereo mini plug type, use a plug adapter to convert the stereo mini plug to the corresponding plug of the audio output.

#### IMPORTANT

Always set volume to MIN when connecting or disconnecting the other equipment.



DO NOT plug in any equipment until all connections are complete.

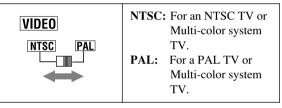
#### To connect the AV COMPU LINK cords

The AV COMPU LINK control system allows you to use JVC's TV with simple operations; by starting playing back a disc, the TV automatically turns on and changes the input mode to the appropriate position so that you can view the playback picture.

To use AV COMPU LINK, you need to connect the unit and the TV by using a cord with monaural mini-plugs (not supplied) in addition to the connection with a video cord (see page 4).

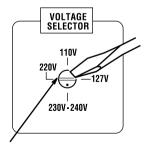
#### To set the video output selector

You can select the video output to match it to the color system of your TV.



#### Adjusting the Voltage Selector

Use a screwdriver to rotate the voltage selector so that the voltage marker is pointing at the same voltage as where you are plugging in the unit. (See also the back cover page.)



Voltage marker

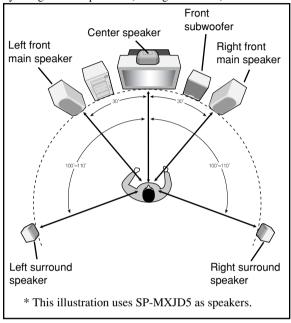


DO NOT plug in before setting the voltage selector on the rear of the unit and all connection procedures are complete.

# Setting the Speakers

#### **Speaker layout**

To enjoy multi-channel sound, locate speakers as follows. If you cannot locate them like this, adjust the speaker setting by using the Set up menu. (See right column.)



#### • You can place the front subwoofer wherever you like since bass sound is non-directional. However, it is recommended to place it in front of you.

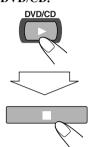


• DO NOT place a center speaker and surround speakers on the front main speakers or the front subwoofer.

#### To adjust the speaker distance

You need to adjust the each speaker's distance from where you usually take seat (listening position) to get the best surround effect.

- **1** Turn on the TV and select the correct input mode on the TV.
- **2** Turn on the System and change the source to "DVD/CD."



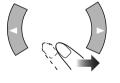


**3** Display the Set up Menu.



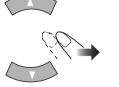


4 Select the SPK. SETTING Set up Menus.





**5** Select "DISTANCE."



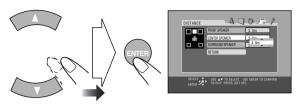


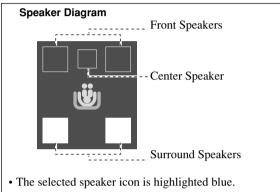
**6** Enter the DISTANCE submenu.





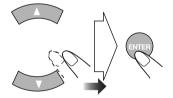
7 Select the speaker to adjust the distance, then display the pop-up window.





**8** Adjust the desired speaker distance.

• For each speaker (FRONT SPEAKER, CENTER SPEAKER, SURROUND SPEAKER), set the distance from the listening point within the range of 0.3 m to 9.0 m in 0.3 m intervals.



**9** Repeat steps 7 to 8 to adjust other speakers' distance if necessary.

#### To finish the setting



# **Before Operating the System**

## Playable Disc Types



This unit has been designed to play back the following discs:

Disc Type	Mark (Logo)
DVD Video	
DVD Audio	
Video CD (VCD)	USC Garrie Video CD
Super Video CD (SVCD)	
Audio CD	
CD-R	The System can play back CD-R or CD-RW
CD-RW	recorded in the Audio CD, Video CD, SVCD, MP3, WMA, JPEG, MPEG-4 formats.
DVD-R	The System can play back DVD-R or DVD-
DVD-RW	RW recorded in the DVD Video format.

In addition to the above discs, this system can play back audio data recorded on CD Text, CD-G (CD Graphics), and CD-Extra.

• The following discs cannot be played back: DVD-ROM, DVD-RAM, DVD+R, DVD+RW, CD-I (CD-I Ready), CD-ROM, Photo CD, etc.

Playing back these discs will generate noise and damage the speakers.

• In this manual, "file" and "track" are interchangeably used for MP3/WMA/JPEG/MPEG-4 operations.

#### About color system

This System accommodates both NTSC and PAL system and can playback discs recorded with either system. To change the color system, see page 7.

#### Note on Region Code

DVD players and DVDs have their own Region Code numbers. This System can play back only DVDs recorded with the NTSC or PAL color system whose Region Code numbers including "4."





If a DVD with the improper Region Code numbers is loaded, "REGION ERR" appears on the display and playback will not start.

#### Audio formats

The System can play back the following digital audio formats.

- LPCM (Linear PCM)
- DIGITAL (Dolby Digital)
- DTS (Digital Theater Systems)
- MPEG (MPEG Multichannel)
- MLP (Meridian Lossless Packing)

# **IMPORTANT:** Before playing a disc, make sure of the following...

- Turn on the TV and select an appropriate input mode on the TV to view the pictures or on-screen displays on the TV screen.
- For disc playback, you can change the initial setting to your preference. See "Set up Menu Operations" on page 39.

If " $\bigotimes$  " appears on the TV screen when you press a button, the disc cannot accept the operation you have tried to do, or data required for that operation is not recorded on the disc.

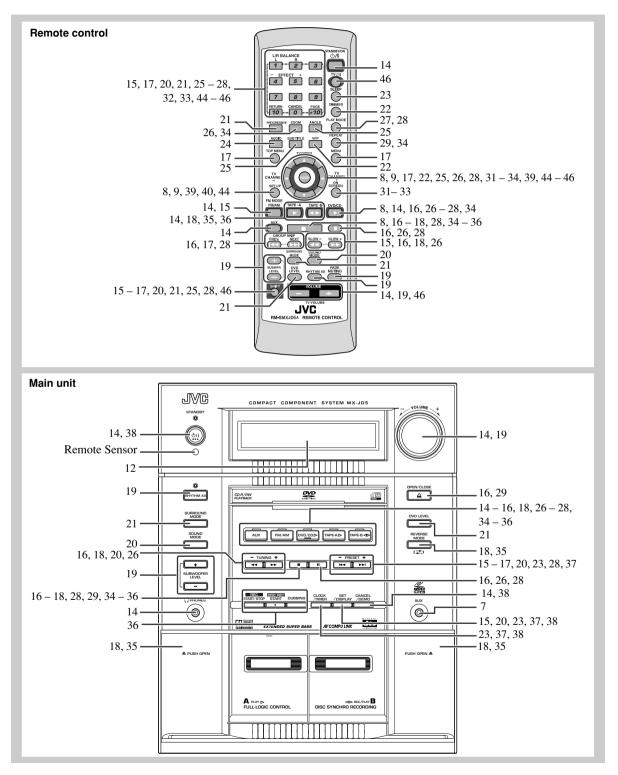
- Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", "MLP Lossless", and the double-D symbol are trademarks of Dolby Laboratories.
- "DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc.
- USE OF THIS PRODUCT IN ANY MANNER THAT COMPLIES WITH THE MPEG-4 VISUAL STANDARD IS PROHIBITED, EXCEPT FOR USE BY A CONSUMER ENGAGING IN PERSONAL AND NON-COMMERCIAL ACTIVITIES.
- 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.

"CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 OR 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p AND 625p DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER."

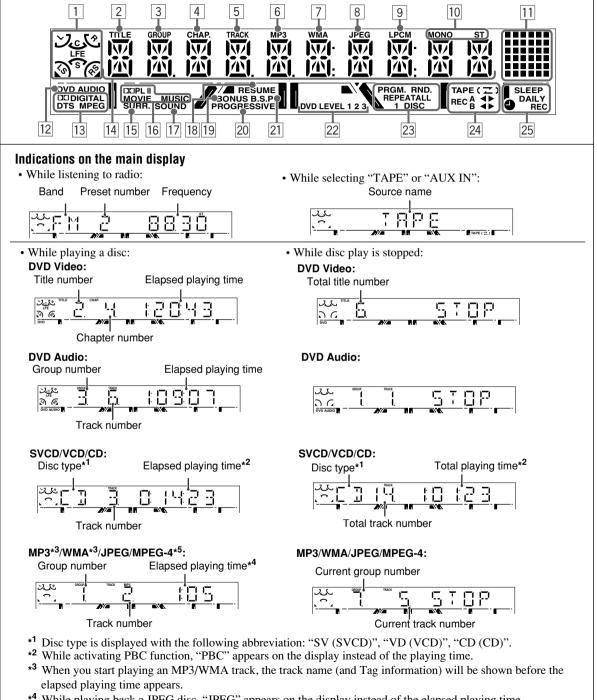
# Parts Index

Refer to the pages to see how to use the buttons and controls.



### About the Display Indication

The indications on the display teach you a lot of things while you are operating the System. Before operating the System, be familiar with when and how the indicator illuminates on the display.



- \*<sup>4</sup> While playing back a JPEG disc, "JPEG" appears on the display instead of the elapsed playing time.
- \*<sup>5</sup> When you start playing an MPEG-4 file, the file name will be shown before the elapsed playing time appears.



- 1 Surround Mode/Source signal indicators
  - Surround Mode indicators: light to indicate the current activated speaker.
  - L/C/R/LFE/LS/S/RS: light to indicate the current source signal.
- 2 TITLE indicator
  - Lights to indicate the title number when the source is DVD Video.
  - Lights to indicate the group title or track title when MP3/ WMA/JPEG/MPEG-4 title is shown on the main display.

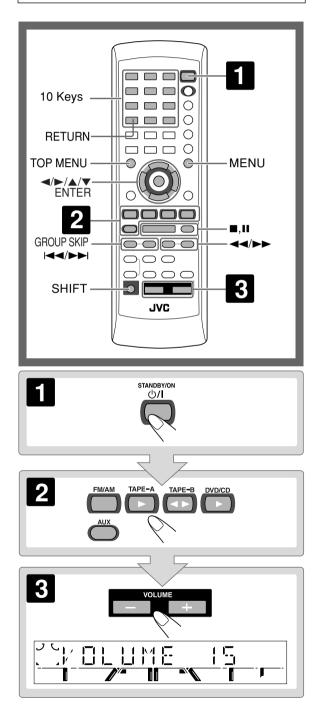
#### **3** GROUP indicator

- Lights to indicate the group number when the source is DVD Audio or MP3/WMA/JPEG/MPEG-4 disc.
- 4 CHAP. indicator
  - Lights to indicate the chapter number when the source is DVD Video.
- 5 TRACK indicator
  - Lights to indicate the track number when the source is a disc (except for DVD Video).
- 6 MP3 indicator
- Lights while playing back an MP3 track.
- 7 WMA indicator
- Lights while playing back a WMA track.
- 8 JPEG indicator
- Lights while playing back a JPEG file.
- 9 LPCM indicator
- Lights when a source signal is linear PCM.
- 10 FM reception indicators
  - MONO: lights while receiving an FM stereo station in monaural.
  - ST (stereo): lights while an FM stereo station with sufficient signal strength is tuned in.
- 11 Animation indicator
- 12 DVD AUDIO indicator
  - DVD: lights when DVD Video is detected.
  - DVD AUDIO: lights when DVD Audio is detected.
- 13 Source signal indicators
  - DIGITAL: lights when a source signal is Dolby Digital.
  - DTS: lights when a source signal is DTS Surround.
  - MPEG: lights when a source signal is MPEG multichannel.
- 14 Main display
- 15 SURR. indicator
- Lights when Surround mode is activated.
- 16 Dolby Pro Logic II indicators
  - D PL II: lights when Dolby Pro Logic II mode is activated.
  - MOVIE: lights when Dolby Pro Logic II Movie is activated.
  - MUSIC: lights when Dolby Pro Logic II Music is activated.
- 17 SOUND indicator
  - Lights when SEA mode or USER mode is activated.

- **18** RESUME indicator
  - Lights when the Resume function is activated (see page 16).
- 19 BONUS indicator
  - Lights when DVD Audio with bonus group is detected (see page 26).
- 20 PROGRESSIVE indicator
- Lights when the progressive scanning mode is selected.
- 21 B.S.P. indicator
  - Lights when browsable still picture on DVD Audio is available (see page 25).
- 22 DVD LEVEL 1/2/3 indicators
  - Lights when the DVD Video is detected.
- 23 Disc operation indicators
  - PRGM.: lights when Program Play mode is activated.
  - RND.: lights when Random Play is activated.
  - REPEAT: lights when Repeat Play mode is activated.
  - ALL: lights when All Disc Repeat is activated.
  - 1: lights when One Track/Chapter/Step Repeat is activated.
- 24 Tape operation indicators
  - TAPE: lights when a tape is loaded in either A or B.
  - (**C**) (reverse mode):
    - ( $\square$ ): tape play continues endlessly.
    - **\square**: tape automatically reverses once.
    - $\mathbf{Z}$ : tape play stops at the end of one side.
  - A: lights when a tape is loaded in the deck A.
  - B: lights when a tape is loaded in the deck B.
  - REC: lights while recording.
  - $\blacktriangleleft$   $\blacktriangleright$  (tape direction):
  - -Lights to indicate the current tape running direction.
  - -Flashes slowly during playback and recording.
  - -Flashes quickly while rewinding a tape.
- **25** Timer indicators
  - **(**): lights when Sleep Timer is working or Daily Timer or Recording Timer stands by or is working or setting.
  - SLEEP: flashes when the Sleep Timer is activated.
  - DAILY: lights when the Daily Timer stands by; flashes while working or setting.
  - REC: lights when the Recording Timer stands by; flashes while working or setting.

# Daily Operations—Playback

In this manual, the operation using the remote control is mainly explained; however, you can use the buttons and controls on the main unit if they have the same (or similar) name and marks.



### **1** Turn on the power.

The STANDBY lamp on the main unit goes off.

• Without pressing  $\overline{O}/I$  (STANDBY/ON), the System also turns on by pressing one of the source select buttons in the next step.

#### **2** Select the source.

Playback automatically starts if the selected source is ready to start playback.

• If you press AUX, start playback source on the external component.

#### **3** Adjust the volume.

# **4** Operate the target source as explained later.

### To turn off (stand by) the system



The STANDBY lamp on the main unit lights in red.

• A small amount of power is always consumed even while on standby.

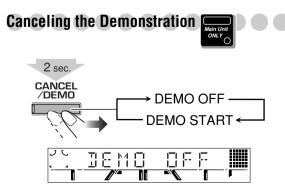
### For private listening

Connect a pair of headphones to the PHONES jack on the main unit. The sound will no longer come out of the speakers. Be sure to turn down the volume before connecting or putting the headphones.

• Disconnecting the headphones will activate the speakers again.

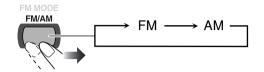


DO NOT turn off (standby) the System with the volume set to an extremely high level; Otherwise, the sudden blast of sound can damage your hearing, speakers and/or headphones when you turn on the System or start playback.



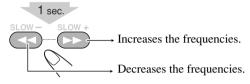
# Listening to the Radio

To select the band (FM/AM)



#### To tune in to a station

While FM or AM is selected ...

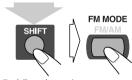


When a station (frequency) with sufficient signal strength is tuned in, the frequency search stops.

#### To stop searching manually, press either button.

• When you repeatedly press the button, the frequency changes step by step.

#### If the received FM station is hard to listen



(holding then...)



Reception will improve though stereo effect is lost—monaural reception mode. **To restore the stereo effect,** press the button again (the MONO indicator goes off).

# To preset Stations

INFO

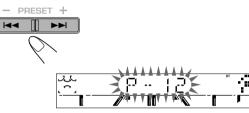


You can preset 30 FM and 15 AM stations.

**1** Tune in to a station you want to preset, then enter into the presetting mode.



**2** Select a preset number for the station you store.

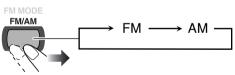


**3** Store the station.



#### To turn in to a Preset Station

**1** Select the band (FM or AM).



**2** Select a preset number for the station you store.

#### Examples:



To select preset number 5, press 5. To select preset number 15, press +10, then 5.

To select preset number 30, press +10, +10, then 10.

• You can also use I◀◀/►►I buttons on the remote control or the PRESET +/- buttons on the main unit.

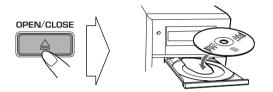
# Playing Back a Disc

Before operating a disc, be familiar how a disc is recorded. • DVD Video comprises of "**Titles**" which includes

"Chapters," DVD Audio/MP3/WMA/JPEG/MPEG-4 comprise of "Groups" which includes "Tracks," and CD/ SVCD/VCD comprise of only "Tracks."

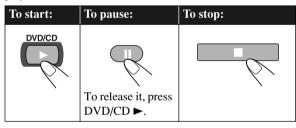
For JPEG/MPEG-4 playback, see "Operations on the CONTROL Screen" on page 33.

#### To insert discs



• When using an 8 cm disc, place it on the inner circle of the disc tray.

To close the disc tray, press OPEN/CLOSE  $\triangleq$  again. If you press DVD/CD  $\triangleright$ , disc tray closes automatically and playback starts.



While playing DVD/SVCD/VCD: This System can store the stop point, and when you start playback again by pressing DVD/CD ►, it starts from the position where you have stopped—Resume Play. (RESUME indicator lights up when you stop playback.)

To stop completely while Resume is activated, press ■ twice. (To cancel Resume, see "RESUME" on page 43.)

#### **On-screen** guide icons

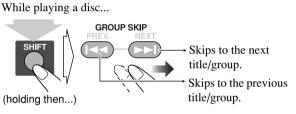
- During disc playback, the following icons may appear for a while on the TV screen:
  - Appears at the beginning of a scene containing multi-angle views.
  - Appears at the beginning of a scene containing multi-audio languages.
  - Appears at the beginning of a scene containing multi-subtitle languages.
- The following icons will be also shown on the TV screen to indicate your current operation.



• To deactivate the on-screen guide icons, see "ON SCREEN GUIDE" on page 43.

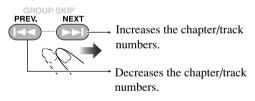
#### To select a title/group





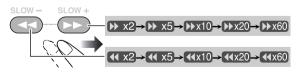
#### To select a chapter/track

While playing a disc...



### To locate a particular portion

While playing a disc except WMA/MP3...



• No sound comes out while searching on DVD/SVCD/ VCD.

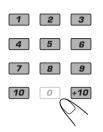
To return to normal playback, press DVD/CD ►.

#### To select an item directly



You can select a title/chapter/track directly and start playback.

For DVD Video, you can select a title before starting playback, while you can select a chapter after starting playback.



#### Examples:

To select number 5, press 5. To select number 15, press +10, then 5.

To select number 30, press +10, +10, then 10.

#### Playing Back by Using the Disc Menu

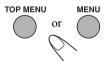


You can operate the disc play—DVD and SVCD/VCD with Playback Control (PBC)—using the disc menu shown on the TV screen.

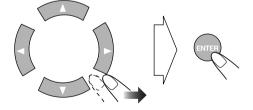
• When an SVCD or VCD with PBC is detected, "PBC" appears on the display instead of the playing time.

#### For DVD Video/DVD Audio:

#### **1** Show the disc menu.



**2** Select an item on the disc menu.

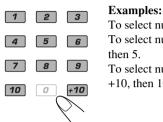


• With some discs, you can also select items by entering the number using the 10 keys.

#### ■ For SVCD/VCD with PBC:

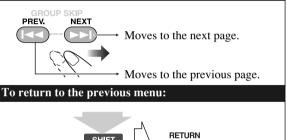
While playing a disc with PBC, "PBC" appears on the display.

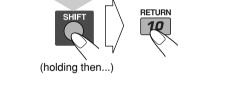
When disc menu appears on the TV screen, select an item on the menu. Playback of the selected item starts.



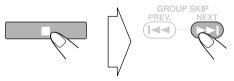
To select number 5, press 5. To select number 15, press +10, then 5. To select number 30, press +10, +10, then 10.

# To move to the next or previous page of the current menu:





#### To cancel PBC



You can also cancel PBC function by pressing the number button to select a track.

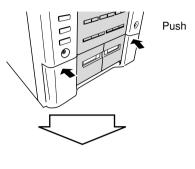
#### To reactivate PBC, press ■, then press I<<.

# Playing Back a Tape 🖉 🖉 🖉 🖉 🔳

#### To insert a tape

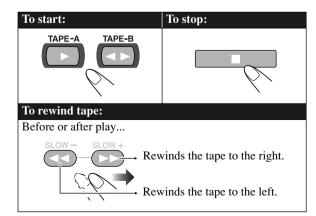
You can play back type I tapes.

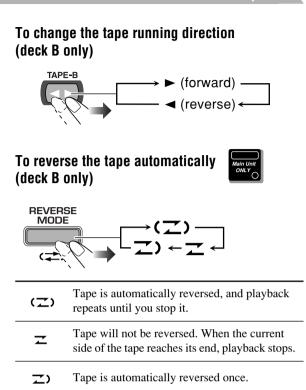
• The use of C-120 or longer tape is not recommended.





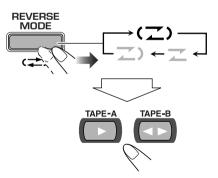






#### To playback the both decks A and B continuously —Relay Play

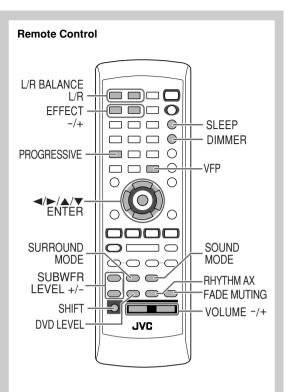
When the cassettes are set in the both decks...



After the tape in deck A finishes playing, the tape in deck B starts playing.

After the reverse ( $\blacktriangleleft$ ) side of the tape in deck B finishes playing, the tape in the deck A rewinds and then starts playing.

# Daily Operations—Sound&Other Adjustments



### Adjusting the Volume

The volume level can be adjusted in 32 steps (VOLUME MIN, VOLUME 1 – VOLUME 30, VOLUME MAX).

Remote control:	Main unit:
	VOLUME +

To drop the volume in a moment



INFO



To restore the volume, press again, or adjust the volume level.

### Reinforcing the Bass Sound

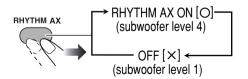
#### To adjust the bass level gradually

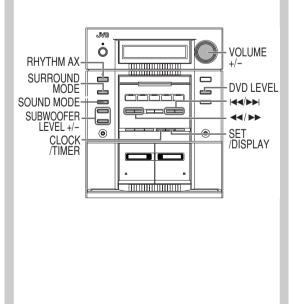
You can select the subwoofer level from level 0 (minimum) to level 4 (maximum).



#### To emphasize rhythm feeling—RHYTHM AX

This function emphasizes bass attack feeling, and also changes the subwoofer level.

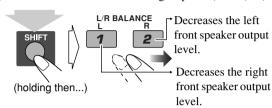




Main unit

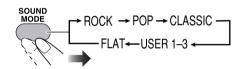
# Adjusting the Front Speaker ()) Output Balance

You can adjust the output balance of left front speaker and right front speaker within the range of R (right) -6 (minimum sound level from the right speaker) to L (left) -6.



### **Selecting the Sound Modes**

You can select one of the preset Sound Modes.



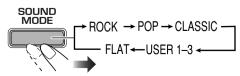
SEA (Sound Effect Amplifier) modes	
ROCK	Boosts low and high frequency. Good for acoustic music.
POP	Good for vocal music.
CLASSIC	Good for classical music.
User modes	
USER 1/2/3	Your individual mode stored in memory. See the next column "Creating Your Own Sound Modes—User Mode."
FLAT	No Sound Mode effect.

## Creating Your Own Sound Modes—User Mode



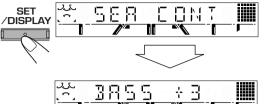
You can create your own Sound Modes to make sounds suit your taste. The changed settings can be stored as the USER 1, USER 2 and USER 3 modes.

**1** Select one of the preset Sound Modes.



#### **2** Enter into the SEA Control Mode.

• You can enter the SEA Control Mode only while the Sound Mode appears on the display.



#### **3** Adjust the SEA pattern.

① Select one of the tone—BASS or TRE (treble).



2 Adjust the level of the selected tone.
You can adjust the bass and

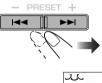
treble level from -3 to +3.



- ③ Repeat steps ① and ② to adjust the level of the other tone.
- 4 Finish the SEA pattern setting.



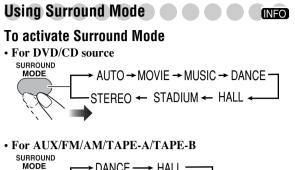
#### **4** Select one of the User Modes.





**5** Finish the setting.







#### Auto Surround Mode\*

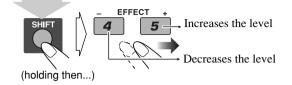
AUTO	<ul> <li>If Multi-channel surround signal comes in, Multi-channel Surround Mode will be selected.</li> <li>If Dolby Surround signal comes in, Dolby Pro Logic II MOVIE mode will be selected automatically.</li> <li>If 2-channel signal comes in, STEREO mode will be selected.</li> </ul>
Dolby Pro Log	ic II modes*
MOVIE	Creates 5.1-channel sound field from 2ch source. This mode is suitable for movie source.
MUSIC	Creates 5.1-channel sound field from 2ch source. This mode is suitable for music source.
DSP modes*	
DANCE	Increases resonance and bass.
HALL	Adds depth and brilliance to the sound.
STADIUM	Adds clarity and spreads the sound, as in an outdoor stadium.
Stereo mode	
STEREO	Cancels the Surround Mode.

\* If Multi-channel surround signal comes in, Multi-channel Surround Mode will be selected automatically.

To adjust the DSP effect level

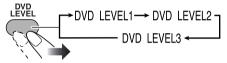


When one of the DSP modes is selected ...



# Presetting Automatic DVD Video Sound

The DVD Video sound is sometimes recorded at a lower level than for other discs and sources. You can set the increase level for the currently loaded DVD Video, so you do not have to adjust the volume every time you change the source.

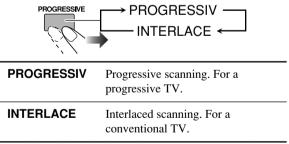


As the number increases, sound level also increases.

### 

This System supports progressive scanning. If you connect a progressive TV through the COMPONENT

jacks, you can enjoy a high quality picture from the built-in DVD player by selecting "PROGRESSIV."



• PROGRESSIVE indicator lights on when progressive mode is selected.

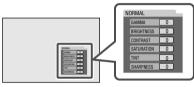
# 

While showing a playback picture on the TV, you can select the preset picture tone, or adjust it and store your own likeliness.

#### To select a preset picture tone

#### **1** Activate VFP.





On the TV screen

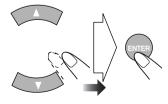
#### **2** Select a preset picture tone.



NORMAL	Normally select this.
CINEMA	Suitable for a movie source.
USER1/USER2	You can adjust parameters and can store the settings (see below).

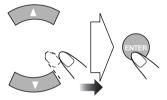
#### To adjust the picture tone

- **1** Select "USER1" or "USER2."
  - Follow steps **1** and **2** explained above.
- **2** Select a parameter you want to adjust.



GAMMA	Adjust if the neutral color is bright or dark. The brightness of dark and bright portions is maintained (-3  to  +3).
BRIGHTNESS	Adjust if the picture is bright or dark as a whole $(-8 \text{ to } +8)$ .
CONTRAST	Adjust if the far and near position is unnatural (-7 to +7).
SATURATION	Adjust if the picture is whitish or blackish (–7 to +7).
TINT	Adjust if the human skin color is unnatural (–7 to +7).
SHARPNESS	Adjust if the picture is indistinct $(-8 \text{ to } +8)$ .

#### **\overline{\mathbf{3}}** Adjust the parameter.



- 4 Repeat steps 2 to 3 to adjust other parameters.
- **5** Finish setting.



### Changing the Display Brightness



You can dim the display window.





Without setting the built-in clock, you cannot use Daily/ Recording Timers (see page 37) and Sleep Timer (see next column).

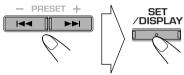
- To exit from the clock setting, press CLOCK/TIMER as required.
- To go back to the previous step, press CANCEL/DEMO.

#### **1** Activate clock setting mode.

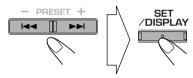


• If you have already adjusted the clock before, press the button repeatedly until the clock setting mode is selected.

#### **2** Adjust the hour.

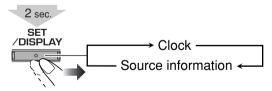


#### **3** Adjust the minute.



Now the built-in clock starts working.

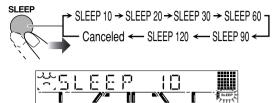
#### To check the current time during play



### Turning Off the Power Automatically

With Sleep Timer, you can fall asleep listening to music.

**1** Specify the time (in minutes).



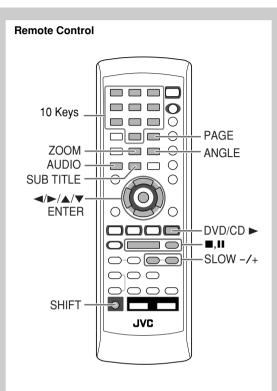
**2** Wait until the set time goes off.

#### To check the time remaining until the shut-off time



• If you press repeatedly, you can change the shut-off time.

# **Unique DVD/VCD Operations**



#### Selecting the Sound Track (Decret >>>) (NFO)

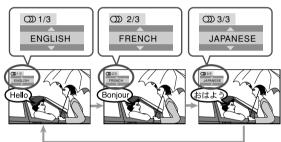
For DVD Video: While playing back a chapter containing audio languages, you can select the language to listen to. For DVD Audio: While playing back a track containing audio channels, you can select the audio channel to listen to. For SVCD/VCD: When playing back a track, you can select the audio channel to play.

• You can also select the audio track using the on-screen bar (see page 31).

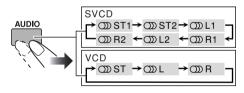
#### While playing a DVD Video...



Ex.:



While playing an SVCD or VCD...



ST1/ST2/ST	To listen to normal stereo (2 channel) playback.
L1/L2/L	To listen to the left audio channel.
R1/R2/R	To listen to the right audio channel.

• SVCD can have 4 audio channels. SVCD usually uses these 4 channels to record two 2-channel recordings (ST1/ST2).

# Selecting the Subtitle Language 🔊 🔊

**For DVD Video:** While playing back a chapter containing subtitles in different languages, you can select the subtitle language to display on the TV screen.

**For SVCD:** While playing, you can select the subtitles even if no subtitles are recorded on the disc.

• You can also select the subtitle language using the onscreen bar (see page 31).

#### While playing a DVD Video...

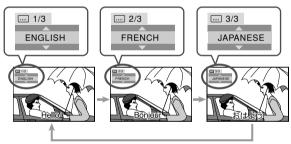
**1** Display the subtitle selection window.



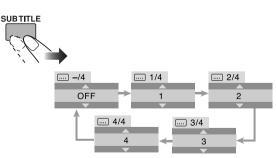
**2** Select the subtitle language.



#### Ex.:



#### While playing an SVCD...



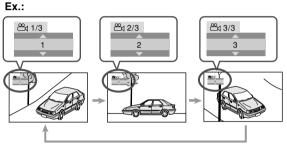
# Selecting a View Angle ( Street >>> )

While playing back a chapter (of DVD Video) containing multi-view angles, you can view the same scene from different angles.

• You can also select the view angle using the on-screen bar (see page 31).

#### While playing back or paused...

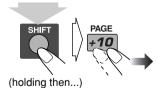




# Selecting a Still Pictures on a DVD Audio

While playing back a track (of DVD Audio) linked to browsable still pictures (B.S.P.), you can select the still picture (turn the page) to be shown on the TV screen.

- If a track is linked to browsable still pictures (B.S.P.), they are usually shown in turn automatically during playback.
- You can also select the page using the on-screen bar (see page 31).



Each time you press the button, the still picture changes one after another (if available).

# Playing Back a Bonus Group (Sector) (Se

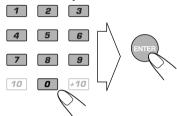
Some DVD Audios have a special group called "bonus group" whose contents are not open to the public.

• To play back a bonus group, you have to enter the specific "key number" (a kind of password) for the bonus group. The way of getting the key number depends on the disc.

#### **1** Select the bonus group.

- The bonus group is usually recorded as the last group (for example, if a disc contains 4 groups including a bonus group, "group 4" is the bonus group).
- For how to select the group, see "To select a title/group" on page 16.

#### **2** Enter the key number.



**3** Follow the interactive instruction shown on the TV screen.

To cancel the key number entry, press  $\blacksquare$  or change to another source.

# **Special Picture Playback**

#### Still picture playback

To start still picture	To resume normal
playback:	playback:
While playing	DVD/CD

#### Frame-by-frame playback

**1** While playing...



Still picture playback starts.



**2** Advance the still picture frame by frame.



To resume normal playback, press DVD/CD ►.

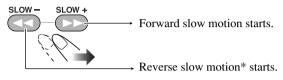
#### Slow-motion playback

#### **1** While playing...



Still picture playback starts.

#### **2** Select slow motion speed.





\*Only for DVD Video.

To resume normal playback, press DVD/CD ►.

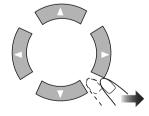


**1** While playing back...



As the number increases, magnification also increases.

#### **2** Move the zoomed-in position.

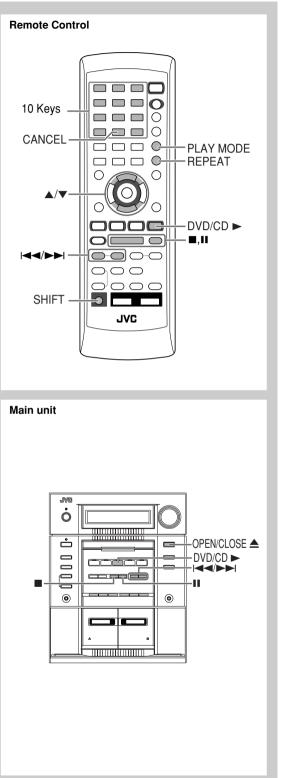


**To resume normal playback**, press ZOOM repeatedly until "ZOOM OFF" appears on the TV screen.



INFO

# **Advanced Disc Operations**



# Programming the Playing Order ()) —Program Play (NFO)

You can arrange the playing order of the tracks (up to 99) before you start playback.

#### **1** Before starting playback, activate Program Play.

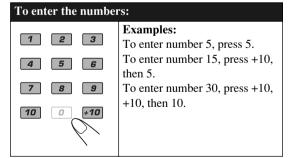


On the display

PROGRAM

On the TV screen

- 2 Select chapters or tracks you want for Program Play.For DVD/MP3/WMA:
  - ① Select a title or group number.
  - ② Select a chapter or track number.
  - For SVCD/VCD/CD:
  - ① Select a track number.



- **3** Repeat the above step **2** until you finish what you want to program.
- **4** Start playback.



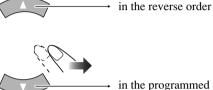
Playback starts in the order you have programmed.

To skip a track:	To pause:	To stop:
GROUP SKIP PREV. NEXT	To release, press DVD/ CD ►.	

### To check the programmed contents



Before or after playback...

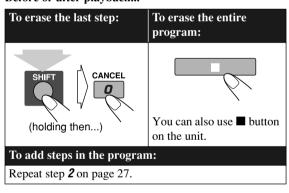


in the programmed order

Remote ONLY SN)

# To modify the program

Before or after playback...



# To exit from Program Play

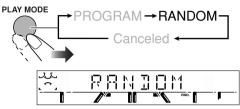
#### Before or after playback...



# Playing at Random—Random Play

You can play the contents of all tracks at random.

#### **1** Before starting playback, activate Random Play.



#### 2 Start playback.



Playback starts in a random order. Random Play ends when all chapters/tracks are played.

To skip:	To pause:	To stop:
To go to the beginning of the current track, press	To release, press DVD/CD ►.	

#### To exit from Random Play Before or after playback...





### Playing Repeatedly



· You can also select the repeat mode using the on-screen bar (see page 31).

#### **Repeat Play**

You can repeat playback.

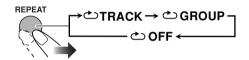
#### • For DVD Video:

While playing ...



#### • For DVD Audio:

While playing or before playback ...



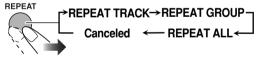
#### • For CD/SVCD/VCD:

While playing (without PBC for SVCD/VCD) or before playback...



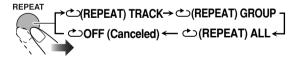
• For MP3/WMA:

While playing or before playback ...



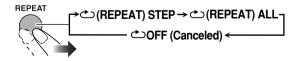
#### • For MPEG-4:

While playing or before playback ...



• For Program Play/Random Play mode:

While playing or before playback ...



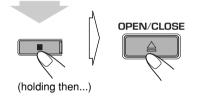
СНАР	Repeats the current chapter.
TITLE	Repeats the current title.
TRACK	Repeats the current track.
GROUP	Repeats the current group.
ALL	Repeats all tracks or all programmed tracks.
STEP	Repeats the current track.
OFF	Selects to cancel Repeat Play mode.

#### Prohibiting Disc Ejection —Child Lock INFO

You can lock the disc tray so that no one can eject the loaded disc.

· This operation is possible only when the source is the disc player.

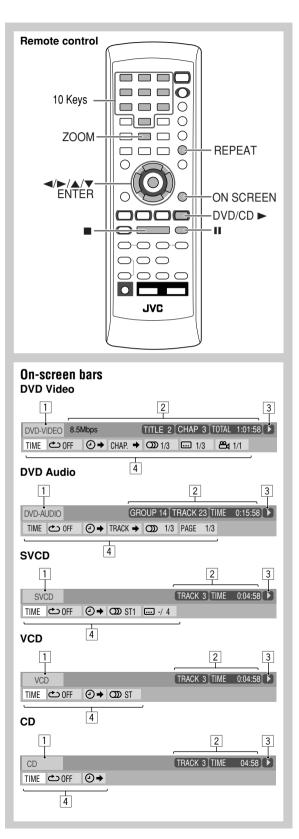
#### While the disc tray is closed...





To cancel the prohibition, repeat the same procedure. "UNLOCKED" appears on the display.

# **On-Screen Disc Operations**



### About the On-screen Bar

You can check the information on disc (except for MP3/ WMA/JPEG/MPEG-4 disc) and use some functions through the on-screen bar.

e on-sereen oar.	
1 Disc type	
2 Playback info	ormation
Indication	Meanings
Mbps	Current transfer rate
	(Megabits per second)
TITLE 2	Current title
CHAP 3	Current chapter
GROUP 1	Current group
TRACK 14	Current track
TOTAL 1:25:58	Time indications
<b>3 Playback con</b>	ditions
Indication	Meanings
	Playback
	Forward/Reverse search
	Forward/Reverse slow-motion
	Pause
0	Stop
4 Operation ico	ons (on the pull-down menu)
Indication	Meanings
TIME	Select to change the time indication
	(see also page 31).
COFF	Select to repeat playback (see also pages 29, 31, and 32).
	Select for time search (see also
	page 32).
CHAP. ➡	Select for chapter search (see also
	page 33).
TRACK →	Select for track search (see also page 33).
<b>DD</b> 1/3	Select to change the audio language or channel (see also page 24).
···· 1/3	Select to change subtitle language
	(see also page 25).
<b>🕰</b> 1/3	Select to change the view angle (see also page 25).
PAGE 1/15	Select to change the page (see also page 25).

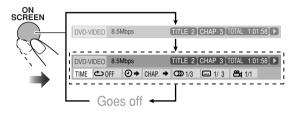


Basic operation procedure through the on-screen bar is as follows:

#### While a disc is selected as the source...

Ex.: Selecting a subtitle (French) for DVD Video:

**1** Display the on-screen bar with the pull-down menu.



#### **2** Select (highlight) the item you want.



DVD-VIDEO	8.5Mbps	TITLE 2 CHAP	9 3 TOTAL 1:01:58
TIME 🖒	OFF ⊙→ CHAP. ◀	• CDD 1/3 1	/ 3 📇 1/1

#### **3** Display the pop-up window.



**4** Select the desired option in the pop-up window.



**5** Finish the setting.



Pop-up window goes off.

#### To erase the on-screen bar



#### Changing the time information

You can change the time information in the on-screen bar and the display window on the main unit.

1 Display the on-screen bar with the pull-down menu.

DVD-VIDEO	8.5Mbps	TITLE 2	CHAP 3 T	OTAL 1:01:58
TIME 🖒 O	FF ⊙→ CHA	P. 🔿 🕥 1/3	···· 1/ 3	<b>84</b> 1/1

- 2 Make sure TIME is selected (highlighted).
- **3** Change the time indication.



TOTAL	Elapsed disc time.
T.REM	Remaining disc time.
TIME	Elapsed playing time of the current chapter/track.
REM	Remaining time of the current chapter/ track.

#### To erase the on-screen bar



#### **Repeat Play**

- See also page 29.
- 1 While playing a disc (without PBC for SVCD/VCD), display the on-screen bar with the pull-down menu.
- 2 Select ₾OFF.
- **3** Display the pop-up window.

DVD-VI	DEO 8.5Mbps TITLE 2 CHAP 3 TOTAL 1:01:58			1:58 🕨			
TIME	లు OFF	▶ OFF 🕗 → CH		<b>CDD</b> 1/3	···· 1/ 3	<b>84</b> 1/1	
	OFF						

4 Select the repeat mode you want.

ALL	Repeats the disc (except for DVD).
A-B	Repeats a desired portion (see page 32).
TITLE	Repeats the current title.
GROUP	Repeats the current group.
CHAPTER	Repeats the current chapter.
TRACK*	Repeats the current track.
OFF	Cancels Repeat Play.

\* During Program Play or Random Play, "STEP" appears.

#### 5 Finish the setting.



Pop-up window goes off.

To cancel Repeat Play, select "OFF" in step 4.

To erase the on-screen bar



#### A-B Repeat

- 1 While playing, display the on-screen bar with the pull-down menu.
- 2 Select ◯OFF.
- **3** Display the pop-up window.

DVD-VI	DEO 8.5	Mbps		TITLE 2	CHAP 3	TOTAL 1:0 <sup>-</sup>	1:58 🕨
TIME	లి OFF	OFF ⊙→ CHA		<b>CDD</b> 1/3	···· 1/ 3	<b>84</b> 1/1	
	OFF						

4 Select "A-B".

	DVD-VIDEO		8.5	Nbps		TITLE 2 CHAP 3 TOTAL 1:01:58			
	TIME	ආ(	)FF	⊘≯	CHAP. 🔿	<b>CDD</b> 1/3	···· 1/ 3	<b>84</b> 1/1	
		A–B							
TIME 🛎 (		DFF <b>⊙</b> → A–B		CHAP. →	<b>CDD</b> 1/3	···· 1/ 3	<b>84</b> 1/1		

5 Select the start point (A).



- Before pressing ENTER, you can search for the end point using ►►.
- 6 Select the end point (B).



A-B Repeat starts. The selected portion plays repeatedly.

#### To erase the on-screen bar



#### **Time Search**

You can move to a particular point by specifying the elapsed playing time from the beginning.

- 1 While playing (without PBC for SVCD/VCD), display the on-screen bar with the pull-down menu.
  - Except for DVD: Time Search can be used before starting playback.
- 2 Select  $\bigcirc \rightarrow$  .
- 3 Display the pop-up window.

DVD-VIDEO 8.5	Mbps	TITLE 2 CHAP 3 TOTAL 1:01:58			
TIME 🖒 OFF	( <b>○</b> → CHAP. → (	∞ 1/3 📖 1/ 3	<b>සූ</b> 1/1		
	TIME _::				

#### 4 Enter the time.

You can specify the time in hours/minutes/seconds.

1	2	3
4	5	6
7	8	9
10		+10

#### Examples:

To move to a point of 1 (hours): 02 (minutes): 00 (seconds), press 1, 0, 2, 0, then 0.

To move to a point of 54 (minutes): 00 (seconds), press 0, 5, 4, 0, then 0.

- It is always required to enter the hour digit (even "0" hour), but it is not required to enter trailing zeros (the last two digits in the examples above).
- 5 Finish the setting.



The System starts playing from the specified time.

#### To erase the on-screen bar



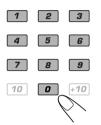
#### **Chapter/Track Search**

You can search for the chapter (DVD Video) or track (DVD Audio) number to play.

- 1 While playing, display the on-screen bar with the pulldown menu.
- 2 Select  $CHAP \rightarrow$  or  $TRACK \rightarrow$ .
- 3 Display the pop-up window.

DVD-V	IDEO	8.5Mbps		TITLE 2	CHAP 3	TOTAL 1:0 <sup>-</sup>	1:58 🕨
TIME	ළ (	IFF 🕘	► CHAP. ➡	<b>CDD</b> 1/3	···· 1/ 3	<b>84</b> 1/1	
CHAPTER _							

4 Enter the desired chapter/track number.



Examples: To select chapter/track 5, press 5.

To select chapter/track 15, press 1, then 5. To select chapter/track 30, press 3, then 0.

- To correct a misentry, press the 10 keys until the desired number shown in the pop-up window.
- 5 Finish the setting.



The System starts playing the searched chapter or track.

#### To erase the on-screen bar

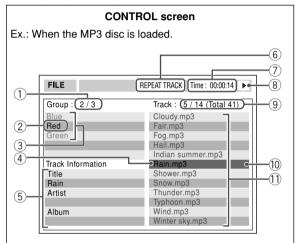


# Operations on the CONTROL (NFO

The CONTROL screen automatically appears on the TV screen when you load an MP3, WMA, JPEG, or MPEG-4 disc.

You can search for and play the desired tracks through the CONTROL screen.

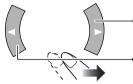
• If more than two types of files (MP3/WMA files, JPEG files, and MPEG-4 files) are recorded on a disc, select the file type to play (see page 41).



- ① Current group number/total group number
- Current group
- ③ Group list
- ④ Current track
- Track information (Tag information: only for MP3/ WMA)
- 6 Repeat Play setting
- Elapsed playing time of the current track (only for MP3/WMA)
- (8) Operation mode icon
- Current track number/total number of tracks in the current group (total number of tracks on the loaded disc)
- 10 Highlight bar
- ① Track list



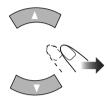
## To move the highlight bar between group list and track list



• Moves the bar to the track list.

Moves the bar to the group list.

#### To select a group/track in the list



Move the highlight bar to a desired item.

 If you move the highlight bar while playing back an MP3/ WMA disc, the selected track starts playback automatically.

#### To start playback

For MP3/WMA/MPEG-4:				
ENTER	<ul> <li>Playback starts with the selected track.</li> <li>Pressing DVD/CD ► also starts playback.</li> </ul>			
For JPEG:				
ENTER	The selected track (still picture) is displayed until you change it.			
DVD/CD	Slide-show playback starts. Each track (still picture) is shown on the screen for a few seconds, then changes one after another.			

- Once you start playing back a JPEG/MPEG-4 track, the CONTROL screen goes off.
- While playing back an MPEG-4 track, you can use ON SCREEN button to show the following information on the display:
  - Repeat Play setting
  - Elapsed playing time of the current track
  - Operation mode icon
- To cancel slide-show, and display the current still picture, press **II**.

#### To stop playback



#### To repeat slide-show for JPEG

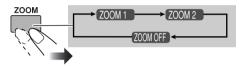
While playing or before starting playback...

REPEAT) GROUP → ⓒ (REPEAT) ALL ⓒ OFF (Canceled) ←		
GROUP	<b>GROUP</b> Repeats the current group.	
ALL	Repeats all disc.	

• For Repeat Play of MP3/WMA/MPEG-4, see page 29.

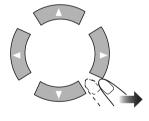
#### To zoom in the still picture

For JPEG: While playback is paused... For MPEG-4: While playing back...



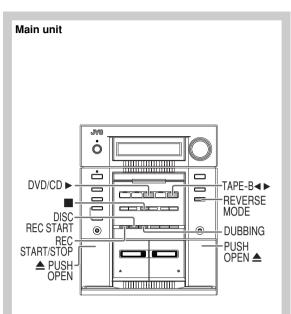
As the number increases, magnification also increases.

#### To move the zoomed-in position



**To resume normal playback,** press ZOOM repeatedly until "ZOOM OFF" appears on the TV screen.

## **Advanced Tape Operations**



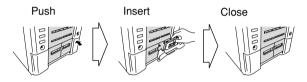
#### IMPORTANT

It may be unlawful to record or play back copyrighted material without the consent of the copyright owner.

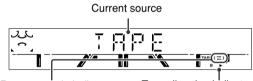


You can use type I tapes for recording.To play a tape, see page 18.

#### **1** Insert a recordable cassette in deck B.



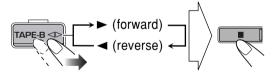
**2** Check the tape running direction and Reverse Mode settings on the display.



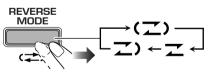
Reverse mode indicator

Tape direction indicator

To change the direction



Change the Reverse mode if necessary



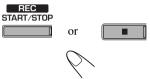
エ) ((エ))	<ul> <li>To record on both sides.</li> <li>When using Reverse Mode, start recording in the forward (►) direction.</li> </ul>
z	To record on only one side.

- **3** Start playing the source—"FM," "AM," "DVD/CD," "TAPE-A" or "AUX."
  - When recording a disc, you can also use "Synchronized Disc Recording" (see the right column).

#### **4** Start recording.

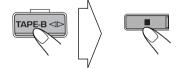


#### To stop recording



### Dubbing Tapes

#### **1** Change the source to TAPE.



- **2** Insert the source cassette in deck A, and a recordable cassette in deck B.
- **3** Check the tape running direction and Reverse Mode settings on the display.

• See step **2** of "Recording on a Tape" on page 35.

4 Start dubbing.



• When either tape playback or recording ends, both cassette decks stop at the same time.

#### To stop dubbing



#### Synchronized Disc Recording 🔚



You can start and stop both disc play and tape recording at the same time.

- **1** Load a disc and insert a recordable cassette.
  - If the current playing source is not the disc player, press DVD/CD ▶, then ■.
- **2** Check the tape running direction and Reverse Mode settings on the display.

• See step **2** of "Recording on a Tape" on page 35.

#### For recording desired tracks on discs:

You can program tracks to record with your preferred order.

• Select Program Play (and make a program (see page 27)) without starting playback.

#### **3** Start recording.



The System automatically creates 4-second blanks between the tunes recorded on the tapes.

• When either disc play or recording ends, both disc player and the cassette deck stop at the same time.

#### To record without creating a 4-second blank

- 1 Press DVD/CD ►, then press II.
- 2 Press I to go back to the beginning of the track.
- 3 Start recording.

#### To protect your recording

Cassettes have two small tabs on the back to protect from unexpected erasure or re-recording.

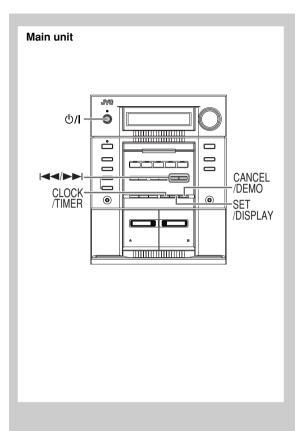
To protect your recording, remove these tabs.



To re-record on a protected tape, cover the holes with adhesive tape.



## **Timer Operations**

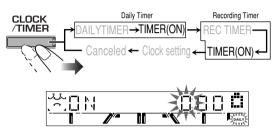


#### Setting the Timer

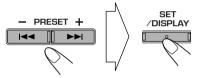


Using Daily Timer, you can wake up with your favorite song. On the other hand, with Recording Timer, you can make a tape of a radio broadcast automatically.

- To correct a misentry during the process, press CANCEL/ DEMO. You can return to the previous step.
- **1** Select one of the timer setting modes (TIMER(ON)) you want to set—Daily Timer or Recording Timer.



**2** Make the timer setting as you want.



Repeat the procedure until you finish setting in the following order:

- **①** Set the hour then minute for on-time.
- 2 Set the hour then minute for off-time.
- ③ For Daily Timers: Select the playback source— "TUNER FM," "TUNER AM," "DISC," "TAPE-A," "TAPE-B" or "AUX IN." For Recording Timer: Select the playback
  - source—"TUNER FM" or "TUNER AM."



EX.: When "TUNER FM" is selected.

- ④ Select a preset station for "TUNER FM" and "TUNER AM," or select a group and track number for "DISC."
- **5** For Daily Timers: Select the volume level.
  - You can select the volume level ("VOLUME 5," "VOLUME 10," "VOLUME 15" and "VOLUME ---"). If you select "VOLUME ---," the volume is set to the last level when the system has been turned off.



INFO

**3** Turn off the System (on standby) if you have set the timer with the System turned on.



#### How Daily Timer actually works

Once the Daily Timer has been set, the timer ( $\bigcirc$ ) indicator and DAILY indicator are lit on the display. Daily Timer is activated at the same time everyday until the timer is turned off manually (see the next column).

#### When the on-time comes

The System turns on, tunes in to the specified station or starts playing the specified source, and sets the volume level to the preset level.

#### When the off-time comes

The System stops playback, and turns off (standby).

• The timer setting remains in memory until you change it.

#### How Recording Timer actually works

When Recording Timer has been set, Timer (O) indicator and the REC indicator are lit on the display. Recording Timer works only once.

#### When the on-time comes

The System turns on, tunes in to the specified station, sets the volume level to "VOLUME MIN," and starts recording.

#### When the off-time comes

The System stops recording, and turns off (standby).

• The timer setting remains in memory until you change it.

Even if the System is power on condition and selected other source, Recording Timer will be activated.

#### To turn off the Timer after its setting is done

You can turn off the timer after it has been set.

- Since Daily Timer is activated at the same time everyday, you may need to cancel it on some particular days.
- **1** Select the timer you want to cancel (DAILYTIMER or REC TIMER) you want to cancel.



#### **2** Turn off the selected timer.



• The timer (  $\clubsuit$  ) indicator goes off.

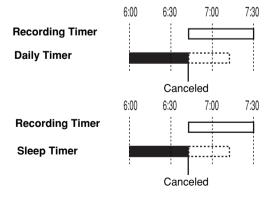
To turn on the timer again, repeat the step **1** and press SET/DISPLAY.



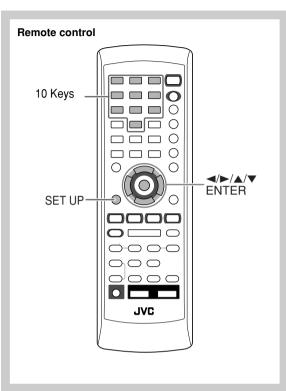
#### Timer Priority

Since each timer can be set separately, you may wonder what happens if the setting for these timers overlaps.

• Recording Timer has priority over the Daily Timer and Sleep Timer (see page 23).



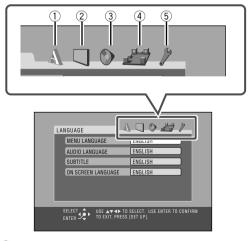
## Set up Menu Operations



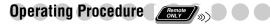
#### Set up Menu Icons

The icon for the selected Set up Menu will be highlighted.

Ex.: LANGUAGE Set up Menu is selected.



- 1) LANGUAGE Set up Menu
- ② PICTURE Set up Menu
- (3) AUDIO Set up Menu
- ④ SPK. SETTING Set up Menu
- (5) OTHERS Set up Menu



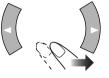
You can use the Set up Menus only when a disc is selected as the source and its playback is not yet started. Ex.: Selecting "STILL PICTURE" for "FILE TYPE":

**1** Show the set up menu.



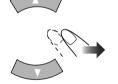


**2** Select one of the set up menus.





**3** Select the item you want to adjust.



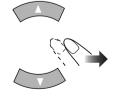


**4** Display the pop-up window.





**5** Select the desired option in the pop-up window.





*b* Finish the setting.

7 Repeat steps 3 to 4 to set other items on the same Setup Menu.

Repeat steps 2 to 4 to set other items on another Setup Menu.

#### To finish the Set up Menu



#### LANGUAGE Set up Menu

INFO

You can select the initial languages for disc playback. You can also select the language shown on the TV screen while operating this System.

_	MENU LANGUAGE	ENGLISH	
_	AUDIO LANGUAGE	ENGLISH	
_	SUBTITLE	ENGLISH	
_	ON SCREEN LANGUAGE	ENGLISH	
_			
_			
	SELECT SELECT. USE ENTER TO CONFIRM ENTER TO EXIT, PRESS (SET UP).		

#### MENU LANGUAGE

Some discs have multiple menu languages. Select from-ENGLISH, SPANISH, FRENCH, CHINESE, GERMAN, ITALIAN, JAPANESE, AA - ZU (see "Language Code List" on page 51).

#### AUDIO LANGUAGE

Some discs have multiple audio languages. Select from-ENGLISH, SPANISH, FRENCH, CHINESE, GERMAN, ITALIAN, JAPANESE, AA - ZU (see "Language Code List" on page 51).

#### SUBTITLE

Some discs have multiple subtitle languages. Select from-ENGLISH, SPANISH, FRENCH, CHINESE, GERMAN, ITALIAN, JAPANESE, AA - ZU (see "Language Code List" on page 51) or "OFF (no subtitle)."

#### **ON SCREEN LANGUAGE**

Select one of the languages shown on the TV from-ENGLISH, CHINESE, and SPANISH.

#### PICTURE Set up Menu

INFO

You can select the desired options concerning a picture or monitor screen.

PICTURE	A	- • #	8
MON	ITOR TYPE	4:3 LB	
PICT	URE SOURCE	AUTO	
SCR	EEN SAVER	ON	)
FILE	ТҮРЕ	AUDIO	)
SELECT ENTER	USE AT TO S TO EXIT, PRESS [	GELECT. USE ENTER TO Set up].	CONFIRM

#### MONITOR TYPF

You can select the monitor type of your TV when you play DVD Video recorded with aspect ratio of 16:9.

#### For the multi-color system TV

When you use a multi-color system TV, you can change the color system of the System automatically by selecting "MULTI" options as the monitor type. In this case, the color system of the System is changed to match the color system of the loaded disc regardless the VIDEO OUT SELECT setting for better picture quality.

#### Select one of the following:

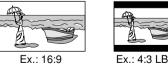
16:9 / 16:9 MULTI (Wide television conversion): Select when the aspect ratio of your TV is 16:9 (wide TV) and when the TV has the screen size adjustment function.

#### 4:3 LB (Letter Box)/ 4:3 MULTI LB:

Select when the aspect ratio of your TV is 4:3. While viewing a wide screen picture, the black bars appear on the top and the bottom of the screen.

#### 4:3 PS (Pan Scan) / 4:3 MULTI PS:

Select when the aspect ratio of your TV is 4:3. While viewing a wide screen picture, the black bars do not appear; however, the left and right edges of the pictures will not be shown on the screen.





#### **PICTURE SOURCE**

You can obtain optimal picture quality by selecting an appropriate option—picture source type (either video source or film source).

#### Select one of the following:

AUTO:	Normally select this.	
	When playing back a disc containing both video and film sources, the System automatically changes the processing to match it to the picture type (film or video source) of the current chapter.	
FILM:	To play a film source disc.	
VIDEO:	To play a video source disc.	

#### **SCREEN SAVER**

You can activate or deactivate screen saver while operating the built-in disc player.

#### Select one of the following:

ON:	The on-screen display on the TV becomes dark	
	when no operation is done for about 5 minutes.	
OFF:	To cancel the screen saver.	

#### FILE TYPE

If both audio tracks (MP3 or WMA files), still picture (JPEG files), and video (MPEG-4 files) are recorded on a disc, you can select which to play.

#### Select one of the following:

AUDIO:	To play MP3/WMA files.
STILL PICTURE:	To play JPEG files.
VIDEO:	To play MPEG-4 files.

#### ■ AUDIO Set up Menu

You can adjust the sound settings of the System.



#### **DIGITAL AUDIO OUTPUT**

When using the digital output terminal on the rear, set this correctly according to the connected component.

#### Select one of the following:

	_	
PCM ONLY:	To connect to a linear PCM digital	
	equipment such as an MD recorder.	
DOLBY DIGITAL /PCM:	To connect to a Dolby Digital decoder or an amplifier with a built-in Dolby Digital decoder.	
STREAM/PCM:	To connect to a DTS decoder or an amplifier with a built-in DTS decoder.	

• See also "OPTICAL DIGITAL OUTPUT Signals" on page 53.

#### **D. RANGE COMPRESSION**

You can compress the dynamic range (the difference between the loudest sound and the softest sound) to enjoy a powerful sound even at a low volume level when listening to Dolby Digital software. This is useful at night.

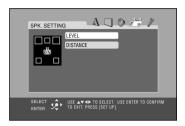
• The effectiveness varies depends on a software.

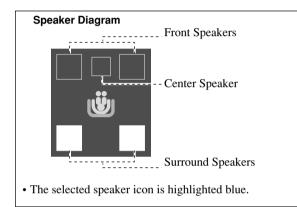
#### Select one of the following:

AUTO:	To enjoy powerful sounds with full dynamic range.
ON:	Best for watching a movie at a low volume level.

#### SPK. SETTING Set up Menu

You can adjust the sound settings of the System.





#### LEVEL

Select this to enter the LEVEL submenu.

If the output sound of center speaker or surround speakers from the listening position are not equal to that of the front speakers, use test tone to adjust the output level to get the best possible surround effect.

• When adjusting the output level by using the test tone, take the disc out from the disc tray.



- 1 Select "ON" of the item TEST TONE.
- 2 Select the speaker—CENTER SPEAKER, SURROUND RIGHT SPEAKER, SURROUND LEFT SPEAKER.
- **3** Adjust the speaker output level for the selected speaker.

You can adjust the output level within the range of -6 dB to +6 dB in 1 dB interval.

4 Repeat steps 2 and 3 to adjust the other speakers.
• To stop test tone, select "OFF" of the item TEST TONE.

5 Select "RETURN" then press ENTER to return to the SPK. SETTING Set up menu.

#### DISTANCE

Select this to enter the DISTANCE submenu. See also "Setting the Speakers" on page 8.



FRONT SPEAKER, CENTER SPEAKER, SURROUND SPEAKER:	For each speaker, set the distance from the listening point within the range of 0.3 m to 9.0 m in 0.3 m intervals.
RETURN:	Select this then press ENTER to return to the SPK. SETTING menu.

#### ■ OTHERS Set up Menu

#### INFO

You can change some other convenient functions.

RESUME	ON
ON SCREEN GUIDE	ON
AV COMPULINK MOD	E DVD1
PARENTAL LOCK	

#### RESUME

You can activate or deactivate Resume for disc playback (see page 16).

#### Select one of the following:

ON:	To activate Resume.
OFF:	To cancel Resume.

#### **ON SCREEN GUIDE**

You can activate or deactivate the on-screen guide icons (see page 16).

• When recording the picture on a VCR, select "OFF" to avoid recording the guide icons on your video tape.

#### Select one of the following:

ON:	To activate the on-screen guide icons.
OFF:	To cancel the on-screen guide icons.

#### AV COMPULINK MODE

When connecting the System to a JVC's TV with the AV COMPU LINK remote control system, select the proper setting.

#### Select one of the following:

DVD1:	To connect to the COMPONENT Video (or
	VIDEO-3 Input) jacks on the TV using a
	component video cord.
DVD2:	To connect to the VIDEO-1 Input jack on the TV
	using an S-video cord.
DVD3:	To connect to the VIDEO-2 Input jack on the TV
	using a composite video cord.

• For details, see "To connect the AV COMPU LINK cords" on page 7.

#### PARENTAL LOCK

Select this to enter the PARENTAL LOCK submenu. See the section that follows.

### Restricting the Review —Parental Lock



You can restrict playback of DVD Video containing violent scenes and those unsuitable for your family members. Once you have set the rating level, such violent scenes (for which a higher level than you set is assigned) may be skipped or changed to another scene (depending on how the disc is programmed).

#### **To set Parental Lock**

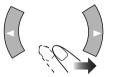
Set the rating level—Level 1 (most restrictive) to Level 8 (least restrictive).

**1** Display the Setup Menu.



LANG		021
	MENU LANGUAGE	ENGLISH
0	NUDIO LANGUAGE	ENGLISH
6	SUBTITLE	ENGLISH
	ON SCREEN LANGUAGE	ENGLISH
	LECT TER ♀ USE ▲▼ ← TO S TO EXIT, PRESS [	

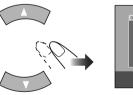
#### **2** Select the OTHERS Setup Menus.



RESUME	ON	
ON SCREEN GUIDE	ON	
AV COMPULINK MO	DE DVD1	
PARENTAL LOCK		

004

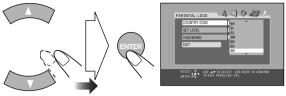
**3** Select "PARENTAL LOCK."





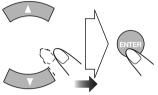


IELECT USE AT AF TO SELECT. USE ENTER INTER 20 TO EXIT, PRESS (SET UP). **5** Select "COUNTRY CODE," then display the pop-up window.

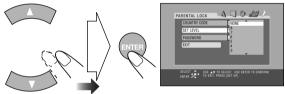


#### *b* Select the country code of your area.

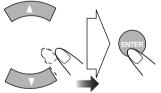
• See also "Country/Area codes list for Parental Lock" on page 52 to find your country code.



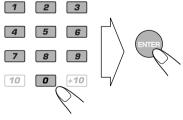
7 Select "SET LEVEL," then display the pop-up window.



**8** Set the rating level (NONE, 8 - 1).



- The System automatically enters password entry mode.
- 9 Enter any 4-digit number for your password.
  1 2 3



**10** Finish the setting.





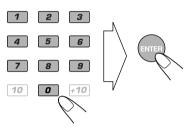
#### To change the setting

- **1** Display the PARENTAL LOCK sub menu.
  - Follow steps 1 to 4 of "To set Parental Lock".



- "PASSWORD" is automatically selected.
- You cannot select any item other than "EXIT" until you enter the correct password.

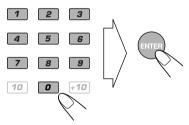
#### **2** Enter your password.



- If you enter a wrong password, "---" appears again.
- If you enter a wrong password three times, "EXIT" is automatically selected. In this case, press ENTER to exit from the PARENTAL LOCK submenu.
- If you forget your password, enter "8888."

#### **3** Change the settings.

- Follow steps  $\boldsymbol{5}$  to  $\boldsymbol{8}$  of "To set Parental Lock".
- **4** Enter your password again.



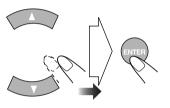
• If you want to change a password, enter a new four digit number in this step.

#### To release Parental Lock temporarily

When you set a strict rating level, some discs may not be played back at all. When you try to play such a disc, the following screen appears on the TV screen.

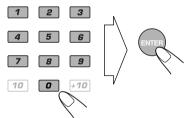
PARENTAL LOCK	
TEMPORARY RELEASE	
NOT RELEASE	
PASSWORD	
SELECT ENTER DE LISE AT TO SELECT. USE ENTER TO CONFIRM.	J

#### **1** Select "TEMPORARY RELEASE," then ENTER.



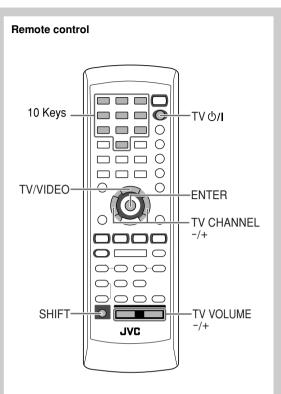
- "PASSWORD" is automatically selected.
- If you do not play back such a disc, select "NOT RELEASE," then ENTER. Then eject the disc.

#### **2** Enter your password.



• If you enter a wrong password three times, "NOT RELEASE" is automatically selected. In this case, press ENTER. Then eject the disc.

## **Operating the TV**



Manufacture's code	
Manufacture	Code number
JVC	01
Hitachi	10
Magnavox	02
Mitsubishi	03
Panasonic	04,11
RCA	05
Samsung	12
Sanyo	13
Sharp	06
Sony	07
Toshiba	08
Zenith	09

#### Operating TV

You can operate the JVC's or other manufacturers' TV using this remote control.

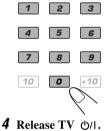
**1** Keep pressed until the following steps are complete.



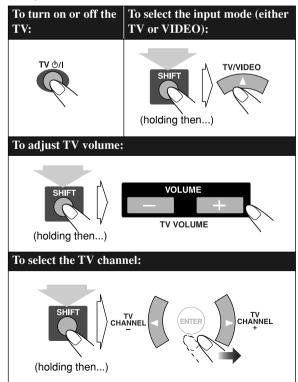
**2** Enter the code setting mode.



**3** Enter the 2-digit manufacture's code number.



#### To operate the TV



## **Additional Information**

#### Learning More about This System 🔵 🔵

#### **Before Operating the System** (see pages 10 to 13) Playable Disc Types:

- If you play back an NTSC disc with this setting set to "PAL," you can watch the playback pictures (the disc will be reproduced using "PAL 60" format), but the TV screen may roll over upward and downward rapidly.
- If you play back a PAL disc with this setting set to "NTSC," you can watch the playback pictures, but the following symptoms may occur:
  - The items on the disc menu will be blurred, and be shown slightly shifted when highlighted.
  - The aspect ratio of the picture may differ from the original aspect ratio.
  - The picture movement is not smooth.
- Notes on MP3/WMA/JPEG/MPEG-4 discs
- MP3/WMA/JPEG/MPEG-4 discs are required a longer readout time than regular CDs. (It depends on the complexity of the group/file configuration.)
- Some MP3/WMA/JPEG/MPEG-4 files cannot be played back and will be skipped. This results from their recording processes and conditions.
- This system can play back MP3/WMA/JPEG/MPEG-4 files with the extension code <.mp3>, <.wma>, <.jpg>, or <.asf> (regardless of the letter case—upper/lower).

#### About audio format

- Linear PCM: Uncompressed digital audio, the same format used for CDs and most studio masters.
- Dolby Digital: Compressed digital audio, developed by Dolby Laboratories, which enables multi-channel encode to create the realistic surround sound.
- DTS (Digital Theater Systems): Compressed digital audio, developed by Digital Theater Systems, Inc., which enables multi-channel like Dolby Digital. As the compression ratio is lower than for Dolby Digital, it provides wider dynamic range and better separation.
- When playing back a DVD Audio disc recorded by MLP (Meridian Lossless Packing; a lossless audio compression system that can completely recreate the PCM signal), the signals recognized as the linear PCM signal, however, no indicator lights up in the display window.

#### Daily Operations—Playback (see pages 14 to 18)

#### Listening to the Radio:

- If you store a new station into an occupied preset number, the previously stored station in that number will be erased.
- When you unplug the AC power cord or if a power failure occurs, the preset stations will be erased in a few days. If this happens, preset the stations again.

#### Playing Back a Disc:

- On some DVD, SVCD, or VCD discs, the actual operations may be different from what is explained in this manual, due to the programming and disc structure; such differences are not a malfunction of this System.
- For MP3/WMA playback...
  - When making MP3/WMA discs, use ISO 9660 Level 1 or Level 2 for the disc format.
- It is recommended that you make each MP3/WMA file at a sampling rate of 44.1 kHz and at bit rate of 128 kbps. This System cannot play back files made at bit rate of less than 64 kbps.

#### Playing Back a Tape:

• In Relay Play, the reverse side of the tape in deck A does not playback. If the playing time of the tape in deck A is less than 12 seconds, the System rewind the tape and playback again.

## Daily Operations—Sound&Other Adjustments (see pages 19 to 23)

#### Adjusting the Volume:

• Be sure to turn down the volume before connecting or putting the headphones.

#### Creating Your Own Sound Modes—User Mode:

• When you unplug the AC power cord or if a power failure occurs, the USER mode settings will be erased in a few days. If this happens, set the USER Modes again.

#### **Using Surround Mode:**

#### Dolby Pro Logic II modes:

Dolby Pro Logic II has developed multichannel playback format to decode the 2 channel sources—Linear PCM digital source, MP3 source, WMA source, Dolby Digital 2ch, DTS 2ch, and Dolby Surround encoded source—into 5.1 channel.

Dolby Pro Logic II enables to reproduce spacious sound from original sound without adding any new sounds and tonal colorations.

- While you use the headphones, the Surround Mode will canceled temporarily ("STEREO" will appear on the display).
- Some DVD Audios prohibit downmix.
- When you change the Surround Mode while playing back such a disc, "MULTI CH" appears on the display and you cannot change the Surround Mode.
- When you select the Surround Mode to "STEREO" and start playback such a disc, "LR ONLY" appears on the display and the System plays back the left front and right front signals.
- When you use the headphones while playing back such a disc, "LR ONLY" appears on the display and the System plays back the left front and right front signals.
- During MPEG-4 playback, Dolby Pro Logic II modes will be canceled temporarily.

#### **Changing the Scanning Mode:**

- Do not change the progressive scanning mode in the following cases:
  - When your TV does not support the progressive video input.
- When you have not connected your TV to the unit using a component video cord.
- When you play back an NTSC disc in progressive scanning mode, the System output the NTSC signal though color system settings.

#### **Changing the Picture Tone:**

• If no operation is done for about 10 seconds, the VFP setting screen disappears.

#### Setting the Clock:

- "0:00" will flash on the display until you set the clock.
- The clock may gain or lose 1 to 2 minutes per month. If this happens, reset the clock.

#### Unique DVD/VCD Operations (see pages 24 to 26)

#### Selecting the Sound Track:

• On some DVD Videos, you cannot change audio languages while playing back.

#### Playing Back a Bonus Group on a DVD Audio:

• You cannot select a track in the bonus group for Program Play.

#### **Special Picture Playback:**

- During slow-motion playback, no sound will be reproduced.
- While zoomed in, the picture may look coarse.

#### Advanced Disc Operations (see pages 27 to 29)

#### Programming the Playing Order—Program Play:

- While programming steps...
- Your entry will be ignored if you have tried to program an item number that does not exist on the disc (for example, selecting track 14 on a disc that only has 12 tracks). Such entries are ignored, and are erased from the program.
- You cannot use Program Play and Random Play for JPEG/ MPEG-4 discs.

#### Prohibiting Disc Ejection—Child Lock:

• If you try to eject discs while Child Lock is in use, "LOCKED" appears to inform you that the disc tray is locked.

#### On-Screen Disc Operations (see pages 30 to 34)

#### **Operations Using the On-screen Bar:**

#### • A-B Repeat:

- A-B Repeat cannot be used on some DVDs.
- For DVD Video, A-B Repeat is possible only within the same title.
- For DVD Audio/SVCD/VCD/CD, A-B Repeat is possible only within the same track.

#### **Operations on the CONTROL Screen:**

- For JPEG files playback...
  - It is recommended that you record a file at 640 x 480 resolution. (If a file has been recorded at a resolution of more than 640 x 480, it will take a long time to be shown.)
  - This System can play only baseline JPEG files\*.
  - Progressive JPEG files\* or lossless JPEG files\* cannot be played.

Baseline JPEG format:	Used for digital cameras, web,
	etc.
Progressive JPEG format:	Used for web.
Lossless JPEG format:	An old type and rarely used
	now

- This unit may not play back JPEG files properly which are recorded by the devices other than digital still camera.
- During JPEG Slide-show playback, zoom cannot be operated.
- For MPEG-4 files playback...
  - The System can play back the MPEG-4 files followed the conditions below:
    - File format: ASF
    - Visual profile MPEG-4 SP (Simple Profile)
  - Audio CODEC: G.726
  - Max. picture size: 352 x 288
  - Max. bit rate: 384 kbps
  - The size of playback screen will be the same size as it is recorded.
  - Some recorded files may not be able to be played back.
  - Some MPEG-4 files created on a personal computer may not be played back.

#### Advanced Tape Operations (see pages 35 and 36) Recording on a Tape:

- The recording level is automatically set correctly. Thus, you can adjust the sound you are actually listening to without affecting the recording level.
- There is leader tape which cannot be recorded onto at the start and the end of cassette tapes. Thus, when recording discs or radio broadcasts, wind the leader tape first to ensure that the recording will be made without any music part lost.
- If no cassette is inserted, "NO TAPE" appears on the display. If a protected tape has been inserted, "NO REC" appears on the display.
- When using Reverse Mode for recording, start recording in the forward (►) direction first; otherwise, recording will stop when only one side (reverse) of the tape is recorded.
- You cannot change the source during recording.

#### Synchronized Disc Recording:

- While recording, you cannot use ►►I/I◄◄, ►►/◄◄, DVD LEVEL, Surround Mode and source buttons.
- You can adjust volume control and sound setting (Subwoofer, RHYTHM AX, Sound Mode) but the settings do not affect the recording sound.

- Everything on the disc goes onto the tape in the order on the disc, or according to the order you have made for Program Play.
- You cannot use Synchronized Recording with Repeat Play (Repeat Play will be canceled).
- When recording starts, "DISC REC" appears on the display and the REC (recording) lamp flashes.
- When the tape reaches its end in the forward direction (►) during recording, the last song will be re-recorded at the beginning of the reverse side (◄).
- When the tape reaches its end in the reverse side (◄) during recording, recording stops even though the entire disc is not entirely recorded.
- During Recording, Multi-channel source will be downmixed into 2 channels, and AUTO or Dolby Pro Logic II modes are temporarily canceled.
- You cannot use Synchronized Recording with JPEG or MPEG-4 disc.

#### **Timer Operations** (see pages 37 and 38) Setting the Timer:

- If you do not specify the preset station or track number correctly while setting a timer, the currently selected station or the first track will be played when timer is activated.
- When you unplug the AC power cord or if a power failure occurs, the timer will be canceled. You need to set the clock first, then the timer again.
- Without stopping the recording, you cannot change the source after Recording Timer starts recording.
- If you set DVD Video as the source, Daily Timer will not work correctly.

#### Timer Priority:

- If you set the Sleep Timer after Daily Timer starts playing the selected source, Daily Timer is canceled.
- If you set the Sleep Timer after Recording Timer starts recording, Recording Timer is canceled, but recording continues until Sleep Timer shuts off the power.

#### Set up Menu Operations (see pages 39 to 45)

#### LANGUAGE Set up Menu:

• When the language you have selected for MENU LANGUAGE, AUDIO LANGUAGE, or SUBTITLE is not recorded on a disc, the original language is used as the initial language.

#### PICTURE Set up Menu—MONITOR TYPE:

- Even if "4:3 PS" is selected, the screen size may become 4:3 letter box with some DVD Videos. This depends on how the discs are recorded.
- When you select "16:9" for a picture whose aspect ratio is 4:3, the picture slightly changes due to the process for converting the picture width.

#### OTHERS Set up Menu—ON SCREEN GUIDE:

• The set up menu and on-screen bar will be displayed (and recorded) even though this function is set to "OFF."

Subtitles and the information for zooming in always appear on the display regardless of this setting.

### Maintenance

To get the best performance of the System, keep your discs, tapes, and mechanism clean.

#### Handling discs

- Remove the disc from its case by holding it at the edge while pressing the center hole lightly.
- Do not touch the shiny surface of the disc, or bend the disc.
- Put the disc back in its case after use to prevent warping.
- Be careful not to scratch the surface of the disc when placing it back in its case.
- Avoid exposure to direct sunlight, temperature extremes, and moisture.

#### To clean the disc:

• Wipe the disc with a soft cloth in a straight line from center to edge.

#### Handling cassette tapes

- If the tape is loose in its cassette, take up the slack by inserting a pencil in one of the reels and rotate it.
  - If the tape is loose, it may get stretched, cut, or caught in the cassette.
- Be careful not to touch the tape surface.
- Avoid the following places to store the tape—in dusty places, in direct sunlight or heat, in moist areas, on a TV or speaker, or near a magnet.

#### To keep the best recording and playback sound quality:

- Use a cotton swab moistened with alcohol to clean the heads, capstans, and pinch rollers.
- Use a head demagnetizer (available at electronics and audio shops) to demagnetize the heads (when the System turned off).

#### **Cleaning the System**

- Stains should be wiped off with a soft cloth. If the System is heavily stained, wipe it with a cloth soaked in waterdiluted neutral detergent and wrung well, then wipe clean with a dry cloth.
- Since the System may deteriorate in quality, become damaged or get its paint peeled off, be careful about the following:
- DO NOT wipe it with a hard cloth.
- DO NOT wipe it strong.
- DO NOT wipe it with thinner or benzine.
- DO NOT apply any volatile substance such as insecticides to it.
- DO NOT allow any rubber or plastic to remain in contact for a long time.

### Troubleshooting

If you are having a problem with your System, check this list for a possible solution before calling for service.

#### General:

## Adjustments or settings are suddenly canceled before you finish.

 $\Rightarrow$  There is a time limit. Repeat procedure again.

#### Operations are disabled.

⇒ The built-in microprocessor may malfunction due to external electrical interference. Unplug the AC power cord and then plug it back in.

#### Unable to operate the System from the remote control.

- ⇒ The path between the remote control and the remote sensor on the System is blocked.
- $\Rightarrow$  The batteries are exhausted.

#### No sound is heard.

- $\Rightarrow$  Speaker connections are incorrect or loose.
- $\Rightarrow$  Headphones are connected.

#### No picture appears on the screen.

 $\Rightarrow$  The video cord connections are incorrect or loose.

#### No picture is displayed on the TV screen, the picture is blurred, or the picture is divided into two parts.

- ⇒ The System is connected to a TV which does not support progressive video input.
- ⇒ Incorrect color system is selected (see "To set the video output selector" on page 7).

## The left and right edges of the picture are missing on the screen.

⇒ Select "4:3 LB /4:3 MULTI LB" for "MONITOR TYPE" (see page 40).

#### **Radio Operations:**

#### Hard to listen to broadcasts because of noise.

- $\Rightarrow$  Antennas connections are incorrect or loose.
- $\Rightarrow$  The AM loop antenna is too close to the System.
- ⇒ The FM antenna is not properly extended and positioned.

#### **Disc Operations:**

#### The disc does not play.

- ⇒ The disc is placed upside down. Place the disc with the label side up.
- $\Rightarrow$  Parental Lock is in use (see page 45).

#### ID3 Tag on an MP3 disc cannot be shown.

⇒ There are two types of ID3 Tag—Version 1 and Version 2. This System can only show ID3 Tag Version 1.

## MP3 groups and tracks are not played back as you expect.

⇒ The playing order is determined when the disc was recorded. It depends on the writing application.

#### MP3/WMA, JPEG, or MPEG-4 files are not played back.

- ⇒ The inserted disc may include more than two types of tracks (MP3/WMA files, JPEG files, and MPEG-4 files). In this case, you can only play back the files selected by the "FILE TYPE" setting (see page 41).
- ⇒ You have changed the "FILE TYPE" setting after you inserted a disc. In this case, reload the disc.

#### The disc sound is discontinuous.

 $\Rightarrow$  The disc is scratched or dirty.

## No subtitle appears on the display though you have selected the initial subtitle language.

⇒ Some DVDs are programmed to always display no subtitle initially. If this happens, press SUB TITLE after starting play (see page 25).

## Audio language is different from the one you have selected as the initial audio language.

⇒ Some DVDs are programmed to always use the original language initially. If this happens, press AUDIO after starting play (see page 24).

#### The disc tray does not open or close.

- $\Rightarrow$  The AC power cord is not plugged in.
- $\Rightarrow$  Child Lock is in use (see page 29).

#### **Tape Operations:**

#### The cassette holder cannot be opened.

⇒ Power supply from the AC power cord has been cut off while the tape was running. Turn on the System.

#### **Recordings:**

#### Impossible to record.

⇒ Small tabs on the back of the cassette are removed. Cover the holes with adhesive tape.

#### Timer operations:

#### Daily Timer does not work.

⇒ The System has been turned on when the on-time comes. Timer starts working only when the System is turned off.

### Language Code List

AA	Afar
AB	Abkhazian
AF	Afrikaans
AM	Ameharic
AR	Arabic
AS	Assamese
AY	Aymara
AZ	Azerbaijani
BA	Bashkir
BE	Byelorussian
BG	Bulgarian
BH	Bihari
BI	Bislama
BN	Bengali, Bangla
BO	Tibetan
BR	Breton
CA	Catalan
СО	Corsican
CS	Czech
CY	Welsh
DA	Danish
DZ	Bhutani
EL	Greek
EO	Esperanto
ET	Estonian
EU	Basque
FA	Persian
FI	Finnish
FJ	Fiji
FO	Faroese
FY	Frisian
GA	Irish
GD	Scots Gaelic
GL	Galician
GN	Guarani
GU HA	Gujarati
	Hausa Hindi
HI HR	Croatian
HU	Hungarian
HY	Armenian
IA	Interlingua
IE	Interlingue
IK	Inupiak
IN	Indonesian
IS	Icelandic
IW	Hebrew
JI	Yiddish
JI	1 Iuuisii

JW	Javanese
KA	Georgian
KK	Kazakh
KL	Greenlandic
KM	Cambodian
KN	
KO	Kannada (KOD)
	Korean (KOR)
KS	Kashmiri Kurdish
KU	
KY	Kirghiz
LA	Latin
LN	Lingala
LO	Laothian
LT	Lithuanian
LV	Latvian, Lettish
MG	Malagasy
MI	Maori
MK	Macedonian
ML	Malayalam
MN	Mongolian
МО	Moldavian
MR	Marathi
MS	Malay (MAY)
MT	Maltese
MY	Burmese
NA	Nauru
NE	Nepali
NL	Dutch
NO	Norwegian
OC	Occitan
ОМ	(Afan) Oromo
OR	Oriya
PA	Panjabi
PL	Polish
PS	Pashto, Pushto
РТ	Portuguese
QU	Quechua
RM	Rhaeto-Romance
RN	Kirundi
RO	Rumanian
RU	Russian
RW	Kinyarwanda
SA	Sanskrit
SD	Sindhi
SG	Sangho
SH	Serbo-Croatian
SI	Singhalese
SK	Slovak
1	

SL	Slovenian
SM	Samoan
SN	Shona
SO	Somali
SQ	Albanian
SR	Serbian
SS	Siswati
ST	Sesotho
SU	Sundanese
SV	Swedish
SW	Swahili
TA	Tamil
ТЕ	Telugu
TG	Tajik
ТН	Thai
TI	Tigrinya
ТК	Turkmen
TL	Tagalog
TN	Setswana
то	Tonga
TR	Turkish
TS	Tsonga
ТТ	Tatar
TW	Twi
UK	Ukrainian
UR	Urdu
UZ	Uzbek
VI	Vietnamese
VO	Volapuk
wo	Wolof
ХН	Xhosa
YO	Yoruba
ZU	Zulu

### Country/Area codes list for Parental Lock

AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
AN	Netherlands Antilles
AO	Angola
AQ	Antarctica
AR	Argentina
AS	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AZ	Azerbaijan
BA	Bosnia and Herzegovina
BB	Barbados
BD	Bangladesh
BE	Belgium
BF	Burkina Faso
BG	Bulgaria
BH	Bahrain
BI	Burundi
BJ	Benin
BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia
BR	Brazil
BS	Bahamas
BT	Bhutan
BV	Bouvet Island
BW	Botswana
BY	Belarus
BZ	Belize
CA	Canada
CC	Cocos (Keeling) Islands
CF	Central African Republic
CG	Congo
СН	Switzerland
CI	Côte d'Ivoire
CK	Cook Islands
CL	Chile
СМ	Cameroon
CN	China
СО	Colombia
CR	Costa Rica
CU	Cuba
CV	Cape Verde
CX	Christmas Island
CY	Cyprus
CZ	Czech Republic
DE	Germany
DJ	Djibouti
	~

DK	Denmark
DM	Dominica
DO	Dominican Republic
DZ	Algeria
EC	Ecuador
EE	Estonia
EG	Egypt
EH	Western Sahara
ER	Eritrea
ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands (Malvinas)
FM	Micronesia (Federated States of)
FO	Faroe Islands
FR	France
FX	France, Metropolitan
GA	Gabon
GB	United Kingdom
GD	Grenada
GE	Georgia
GF	French Guiana
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe
GQ	Equatorial Guinea
GR	Greece
GK GS	South Georgia and the South
65	Sandwich
GT	Guatemala
GU	Guam
GW	Guinea-Bissau
GY	
HK	Guyana Hong Kong
	Hong Kong Heard Island and McDonald
НМ	Islands
HN	Honduras
HR	
	Croatia
HT	Haiti
HU	Hungary
ID IE	Indonesia
IE	Ireland
IL	Israel
IN	India
IO	British Indian Ocean Territory
IQ	Iraq
IR	Iran (Islamic Republic of)
IS	Iceland
IT	Italy
JM	Jamaica

JO	Jordan
JP	Japan
KE	Kenya
KG	Kyrgyzstan
КН	Cambodia
KI	Kiribati
КМ	Comoros
KN	Saint Kitts and Nevis
КР	Korea, Democratic People's
KR	Republic of Korea, Republic of
KW	Kuwait
KW	
	Cayman Islands
KZ	Kazakhstan
LA	Lao People's Democratic Republic
LB	Lebanon
LC	Saint Lucia
LI	Liechtenstein
LK	Sri Lanka
LR	Liberia
LS	Lesotho
LT	Lithuania
LU	Luxembourg
LU	Latvia
LY	Libyan Arab Jamahiriya
MA	Morocco
MC	Monaco
MD	Moldova, Republic of
MG	Madagascar
MH	Marshall Islands
ML	Mali
MM	Myanmar
MN	Mongolia
MO	Macau
MP	Northern Mariana Islands
MQ	Martinique
MR	Mauritania
MS	Montserrat
MT	Malta
MU	Mauritius
MV	Maldives
MW	Malawi
MX	Mexico
MY	Malaysia
MZ	Mozambique
NA	Namibia
NC	New Caledonia
NE	Niger
NF	Norfolk Island
NG	Nigeria
NI	Nicaragua
NL	Netherlands
NO	Norway
10	Tionway

NP	Nepal
NR	Nauru
NU	Niue
NZ	New Zealand
OM	Oman
PA	Panama
PE	Peru
PF	French Polynesia
PG	Papua New Guinea
PH	Philippines
РК	Pakistan
PL	Poland
PM	Saint Pierre and Miquelon
PN	Pitcairn
PR	Puerto Rico
РТ	Portugal
PW	Palau
PY	Paraguay
QA	Qatar
RE	Réunion
RO	Romania
RU	Russian Federation
RW	Rwanda
SA	Saudi Arabia
SB	Solomon Islands
SC	Seychelles
SD	Sudan

SE	Sweden
SG	Singapore
SH	Saint Helena
SI	Slovenia
SJ	Svalbard and Jan Mayen
SK	Slovakia
SL	Sierra Leone
SM	San Marino
SN	Senegal
SO	Somalia
SR	Suriname
ST	Sao Tome and Principe
SV	El Salvador
SY	Syrian Arab Republic
SZ	Swaziland
TC	Turks and Caicos Islands
TD	Chad
TF	French Southern Territories
TG	Togo
ТН	Thailand
TJ	Tajikistan
ТК	Tokelau
ТМ	Turkmenistan
TN	Tunisia
то	Tonga
ТР	East Timor
TR	Turkey

ТТ	Trinidad and Tobago
TV	Tuvalu
TW	Taiwan
TZ	Tanzania, United Republic of
UA	Ukraine
UG	Uganda
UM	United States Minor Outlying
	Islands
US	United States
UY	Uruguay
UZ	Uzbekistan
VA	Vatican City State (Holy See)
VC	Saint Vincent and the Grenadines
VE	Venezuela
VG	Virgin Islands (British)
VI	Virgin Islands (U.S.)
VN	Vietnam
VU	Vanuatu
WF	Wallis and Futuna Islands
WS	Samoa
YE	Yemen
YT	Mayotte
YU	Yugoslavia
ZA	South Africa
ZM	Zambia
ZR	Zaire
ZW	Zimbabwe

#### OPTICAL DIGITAL OUTPUT Signals

DIGITAL AUDIO OUTPUT		Output Signals	
Playback disc	STREAM/PCM	DOLBY DIGITAL/PCM	PCM ONLY
DVD Video		•	
with 48 kHz, 16/20/24 bit Linear PCM	48 kHz, 16 bit Linear PCM*		
with 96 kHz, Linear PCM		48 kHz, 16 bit Linear PCM	
with Dolby Digital	Dolby Digi	tal bitstream	48 kHz, 16 bit Linear PCM
with DTS Digital Surround	DTS bitstream	48 kHz, 16 bi	it Linear PCM
DVD Audio		•	
with 48/96/192 kHz, 16/20/24 bit Linear PCM		48 kHz, 16 bit Linear PCM	
with 44.1/88.2/176.4 kHz, 16/ 20/24 bit Linear PCM		44.1 kHz, 16 bit Linear PCM	I
with Dolby Digital	Dolby Digi	tal bitstream	48 kHz, 16 bit Linear PCM
with DTS Digital Surround	DTS bitstream	48 kHz, 16 bi	it Linear PCM
SVCD, VCD, CD	44.1 kHz, 16 bit Linear PCM*/48 kHz, 16 bit Linear PCM*		
CD with DTS Digital Surround	DTS bitstream	44.1 kHz, 16 t	oit Linear PCM
MP3/WMA disc	32,	44.1/48 kHz, 16 bit Linear P	СМ
MPEG-4 disc		32 kHz, 16 bit Linear PCM	

\* While playing some DVDs, digital signals may be emitted at 20 bits or 24 bits (at their original bit rate) through the OPTICAL DIGITAL OUTPUT terminal if the discs are not copy-protected.



### Specifications

#### **Amplifier section**

Output Power: FRONT MAIN SPEAKERS: 40 W per channel, min. RMS, driven into 6  $\Omega$  at 1 kHz with no more than 10% total harmonic distortion. FRONT SUBWOOFERS: 80 W per channel, min. RMS. driven into 6  $\Omega$  at 63 Hz with no more than 10% total harmonic distortion. 40 W, min. RMS, driven into CENTER SPEAKER: 8  $\Omega$  at 1 kHz with no more than 10% total harmonic distortion. SURROUND SPEAKERS: 25 W per channel, min. RMS, driven into 16  $\Omega$  at 1 kHz with no more than 10% total harmonic distortion.

Digital output: OPTICAL DIGITAL OUTPUT: -21 dBm to -15 dBm (660 nm ±30 nm) Audio input sensitivity/Impedance (Measured at 1 kHz, with tape recording signal 300 mV) AUX IN: 300 mV/47 kΩ

#### VIDEO OUT:

Color system:NTS	C/PAL selectable	
VIDEO (composite):		1 V(p-p)/75 Ω
S-VIDEO:	Y (luminance)	1 V(p-p)/75 Ω
	C (chrominance, l	burst)
		0.286 V(p-p)/75 Ω
COMPONENT (In	terlace/Progressive	e):
	(Y)	1 V(p-p)/75 Ω
	(PB/PR)	0.7 V(p-p)/75 Ω

 $\begin{array}{l} \text{Speaker Terminals: } 6 \ \Omega - 16 \ \Omega \ (\text{Front main speakers}) \\ 8 \ \Omega - 16 \ \Omega \ (\text{Center speaker}) \\ 16 \ \Omega - 32 \ \Omega \ (\text{Surround speakers}) \\ 6 \ \Omega - 16 \ \Omega \ (\text{Front subwoofers}) \end{array}$ 

Others: AV COMPU LINKx2 (\u03b1 3.5)

#### **Tuner section**

 FM tuning range:
 87.50 MHz - 108.00 MHz

 AM (MW) tuning range:
 522 kHz - 1 629 kHz

#### **Disc player section**

Playable disc: DVD Video/DVD Audio/CD/VCD/SVCD CD-R/CD-RW (recorded in Audio CD/ Video CD/ Super Video CD/ MP3/ WMA/ JPEG/MPEG-4 format) DVD-R/DVD-RW (recorded in video format) Dynamic range: 90 dB Horizontal resolution: 500 lines Wow and flutter: Immeasurable

#### **Cassette deck section**

Frequency response<br/>Normal (type I):50 Hz - 14 000 HzWow and flutter:0.15% (WRMS)

#### General

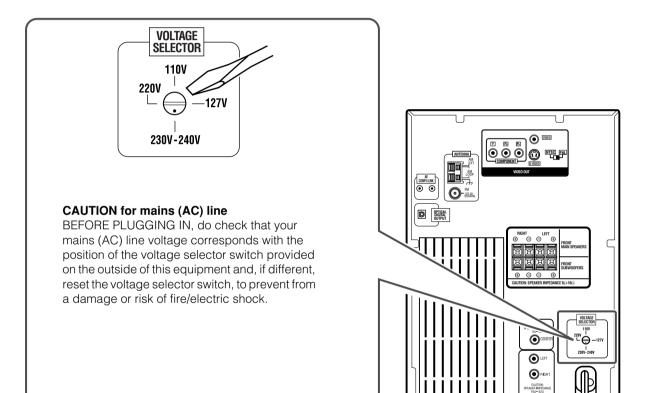
Power requirement:	AC 110 V / AC 127 V / AC 220 V /	
	AC 230 V – AC 240 V $\sim$ ,	
	(adjustable with the voltage selector),	
	50 Hz / 60 Hz	
Power consumption:	220 W (at operation)	
	20 W (on standby)	
Dimensions (approx.): 265 mm x 335 mm x 352 mm		
	(W/H/D)	
Mass (approx.):	8.7 kg	

#### **Supplied Accessories**

See page 3.

Design and specifications are subject to change without notice.

# Mains (AC) Line Instruction (not applicable for Europe, U.S.A., Canada, and U.K.)





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