# JVC



# English

# **MICRO COMPONENT SYSTEM** 微型组合音响

**UX-S77** 

—Consists of CA-UXS77 and SP-UXS77 一由CA-UXS77 及SP-UXS77 组成



GVT0131-010A [US/UN]

# Warnings, Cautions and Others 警告,注意及其他须知事项

#### CAUTION-STANDBY/ON O/I button!

Disconnect the mains plug to shut the power off completely (all lamps and indications go off). The STANDBY/ON **O/I** button in any position does not disconnect the mains line.

- When the unit is on standby, the STANDBY/ON lamp lights in red.
- When the unit is turned on, the STANDBY/ON lamp lights in green.

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.

#### 注意一 也/| 开关!

无论 心/| 开关在任何位置,电源线的电源还是没有被切断 若要将电源完全关闭,应把电源插头拔离插座 (STANDBY/ON 灯熄灭)。

- 当主机正处于备用状态,STANDBY/ON灯为红色。
- 当主机开启后,STANDBY/ON 灯为青色。

电源开关可用遥控器控制。

#### 注意

- 为了减少触电,火灾等危险:
- 1. 请勿擅自卸下螺丝钉,盖子或机壳。
- 2. 请勿让本机受雨淋或置潮湿环境中。

#### 注意

- 请勿堵塞通风口或通风孔。
   (如果通风口或通风孔被报纸或布等堵塞,热量将 无法散出。)
- 请勿在本设备上放置任何裸露的火源,如点燃的蜡烛。
- 处理废弃电池时,必须考虑环境问题,并严格遵守 当地关于处理废弃电池的有关法律或规定。
- 切勿将本装置暴露于雨水所及、潮湿、滴水或易于 溅起水花的地方,亦不要将任何装满液体的物件 (如花瓶)放置在本装置上。

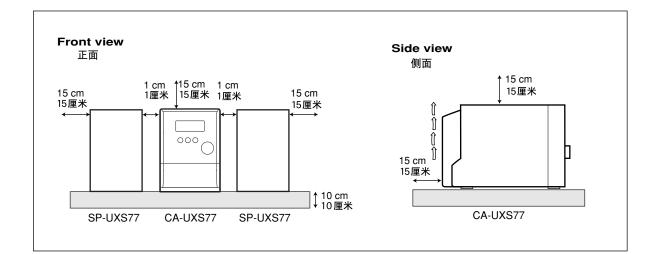
#### **Caution: Proper Ventilation**

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 the level surface. Maintain an adequate air path for ventilation by placing on a stand with a height of 10 cm or more.

#### 注意:正确通风

- 为免发生触电和火警的危险,及防止本机受损,请将本机如下放置:
- 1. 前面: 没有障碍物及地方开阔。
- 2. 侧面 / 顶面 / 背面: 在图中所示范围中,不应放置任何障碍物。
- 3. 底部: 放置在水平面上。放置在一个高 10 厘米或以上的台上,以保持足够的通风道。



#### **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 UNIT.

#### 镭射产品的重要说明

- 1. 一级镭射产品。
- 注意:请勿打开顶盖板,本机内部没有用户可自行维修的部件; 所有维修工作应由有资格的人员完成。
- **3.注意**: 当内部锁定装置失效或者损坏后, 打开盖板可能会产生 可见或不可见的镭射辐射。应避免受到镭射光束的直接照射。
- 4. 标签的复制标示:注意标签位于机内。

Undgå direkte eksponering til

stråling.

<b>CAUTION :</b> Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	osynlig laserstrålning när
ADVARSEL : Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler.	ohitettuna tai viallisena olet alttiina

(d)

lasersäteilylle.

Väĺtä säteen

kohdistumista suoraan itseesi. (f)

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# 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 mounted on the rear panel to prevent heat buildup inside the unit.



- 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 cooling fan and 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.

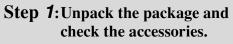
# How to Read This Manual

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

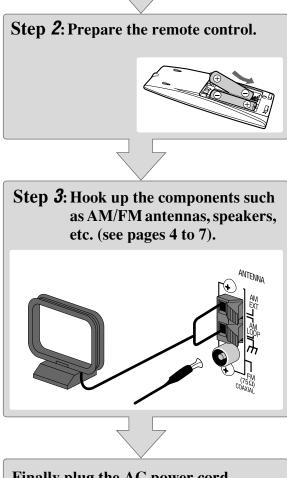
- Button and control operations are explained as listed in the table below. In this manual, the operations using the remote control is mainly explained; however, you can use the buttons and controls on the main unit if they have the same (or similar) name and marks.
- Some related tips and notes are explained later in the sections "Learning More about This System" and "Troubleshooting," but not in the same section explaining the operations. 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.

R	Indicates that you press the button <b>briefly</b> .	
Ű.	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>	
	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	Indicates that this operation is only possible using the buttons and controls on the main unit.	

# **Getting Started**







Finally plug the AC power cord. Now you can operate the System.

# Step 7: Unpack

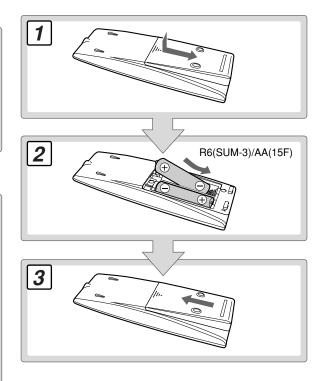
After unpacking, check to be sure that you have all the following items. The number in parentheses indicates the quantity of each piece supplied.

- FM antenna (1)
- AM loop antenna (1)
- Remote control (1)
- Composite video cord (1)
- Batteries (2)
- AC plug adaptor (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 use an old battery together with a new one.
- DO NOT use different types of batteries together.



- 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

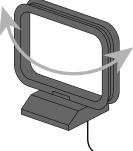
If you need more detailed information, see page 6.

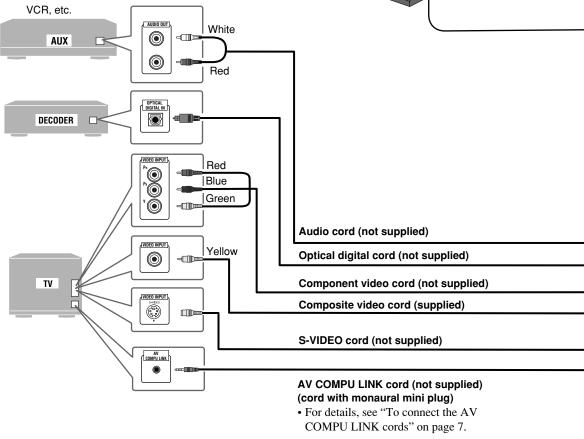
Illustrations of the input/output terminals below are typical examples.

When you connect other components, refer also to their manuals since the terminal names actually printed on the rear may vary.

Turn the power off to all components before connections.

AM loop antenna (supplied) Turn it until the best reception is obtained.





# To a wall outlet

Plug the AC power cord only after all connections are complete.If the wall outlet does not match the AC plug, use the supplied AC plug adaptor.

English

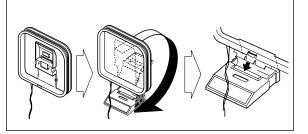
Vynile-covered wire (not supplied) Outdoor FM Extend it horizontally. antenna ANTENNA (not supplied) Disconnect the supplied FM antenna, and connect to an outdoor FM antenna using a 75  $\Omega$  wire with coaxial type connector (IEC or DIN45325). FM antenna (supplied) Extend it so that you can obtain the best reception. IIIII 5

AM loop antenna Keep it connected.

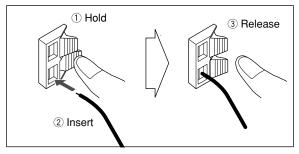
For better FM/AM reception

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

To assemble the AM loop antenna



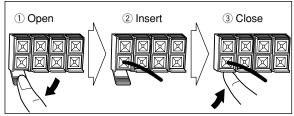
To connect the AM loop antenna



- 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 speaker cords

Connect the right speaker to the RIGHT terminals, and the left speaker to the LEFT terminals.



When connecting the speaker cords, match the polarity of the speaker terminals:

- For LOW terminals: Red cord to (+) and black cord to (-).
- For HIGH terminals: Grey cord to (+) and blue cord to (-)

The speakers are magnetically shielded to avoid color distortions on TVs. However, if not installed properly, it may cause color distortions. So, pay attention to the following when installing the speakers.

- When placing the speakers near a TV set, turn off the TV's main power switch or unplug it before installing the speakers.

Then wait at least 30 minutes before turning on the TV's main power switch again.

Some TVs may still be affected even though you have followed the above. If this happens, move the speakers away from the TV.



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

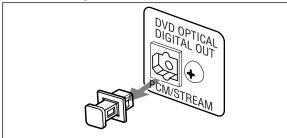
• DO NOT allow the conductor of the speaker cords to be in touch with the metallic parts of the System.

# To connect the AV COMPU LINK cords

This 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 System and the TV by using a cord with monaural mini-plugs (not supplied) in addition to the video input/output connection through the COMPONENT jacks, S-VIDEO jack or VIDEO (composite) jack on the rear.

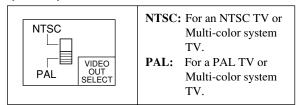
#### To connect digital audio



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

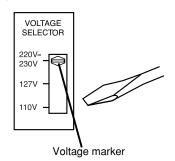
## To set the video output selector

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



#### Adjusting the Voltage Selector

Use a screwdriver to slide 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.)

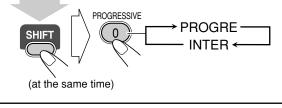




DO NOT plug in before setting the voltage selector on the rear of the unit and all connection procedures are complete.

# Changing the Scanning Mode (Strong way)

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 "PROGRE."



PROGRE	Progressive scanning. For a progressive TV.
INTER	Interlaced scanning. For a conventional TV.

# **Before Operating the System**

## Playable Disc Types

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

Disc Type	Mark (Logo)	Video Format	Region Code* Number
DVD Video			3 or
DVD Audio		NTSC	ALL
Video CD (VCD)	OISTAL VIDEO VIDEO CD	or PAL	
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, and JPEG formats.		
DVD-R	The System can play back DVD-R or DVD-		
DVD-RW	RW recorded in the 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

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

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

#### \* 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 "3."

EX.:



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

#### DVD Video—digital audio formats

The System can play back the following digital audio formats.

- 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 a multi-channel encoded DVD, the System properly converts these multi-channel signals into 2 channels, and emits the downmixed sound from the speakers.

• To enjoy the powerful sound of these multi-channel encoded DVDs, connect a proper decoder or an amplifier with a proper built-in decoder to the digital output terminal on the rear.

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

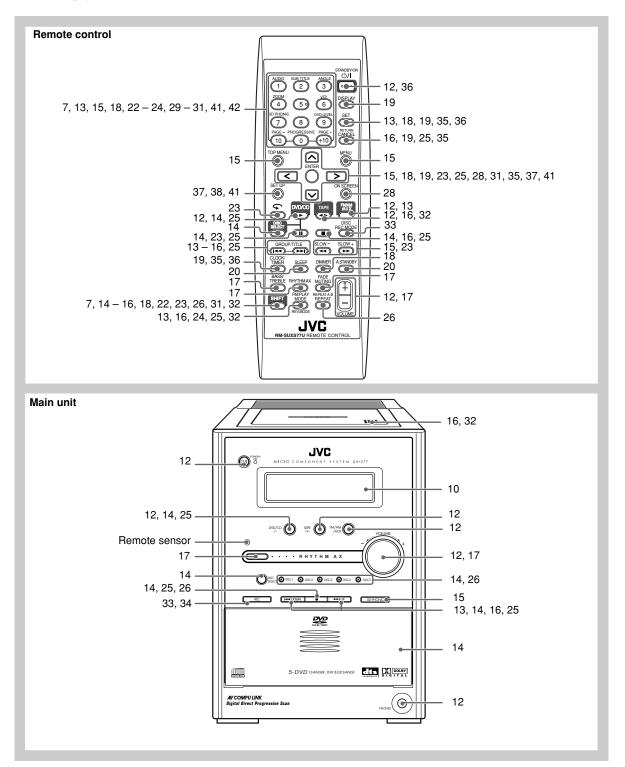
- Turn on the TV and select an appropriate input mode on the TV to view the pictures or on-screen displays on the TV screen.
- For disc playback, you can change the initial setting to your preference. See "Setup Menu Operations" on page 37.

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 "DTS2.0+DIGITAL OUT" are registered trademarks of Digital Theater Systems, Inc.

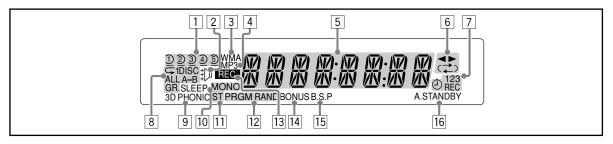
# Parts Index

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



### Display Indicators

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.



#### 1 Disc tray indicators

- 1-5: Disc tray number indicators.
- $\supset$  (tray indicator):
- -Lights when the disc is detected.
- -Flashes while playing back a disc.
- -Goes off when there is no disc in the tray.
- $\bigcirc$  (disc indicator): lights below when the tray indicator indicates the current selected disc.

#### 2 RHYTHM AX indicator

- Lights when RHYTHM AX is activated (see page 17).
- 3 WMA indicator
  - · Lights when the current track is recorded in WMA format.
- 4 MP3 indicator
  - Lights when the current track is recorded in MP3 format.
- 5 Main display
  - · While listening to radio: band (or preset number) and station frequency appear.
  - While selecting tape: "TAPE" appears.
  - While selecting "AUX": "AUX" appears.
  - · While playing a disc: see "Indications on the main display while operating a disc" on page 11.
- 6 Tape operation indicators
  - $\blacktriangleleft$   $\blacktriangleright$  (tape direction):
  - -Lights to indicate the current tape running direction.
  - -Flashes slowly during playback and recording.
  - -Flashes quickly while rewinding a tape.
  - ( )(Reverse mode):
  - -(, tape play continues endlessly.

  - - : tape automatically reverses once.
     - : tape play stops at the end of one side.
- 7 Timer indicators
  - ② : lights when Daily Timer or Recording Timer stands by; flashes while working.
  - 1/2/3: lights up when a Daily Timer (1, 2, or 3) stands by; flashes while setting or working.
  - REC: lights when the Recording Timer stands by; flashes while setting or working.

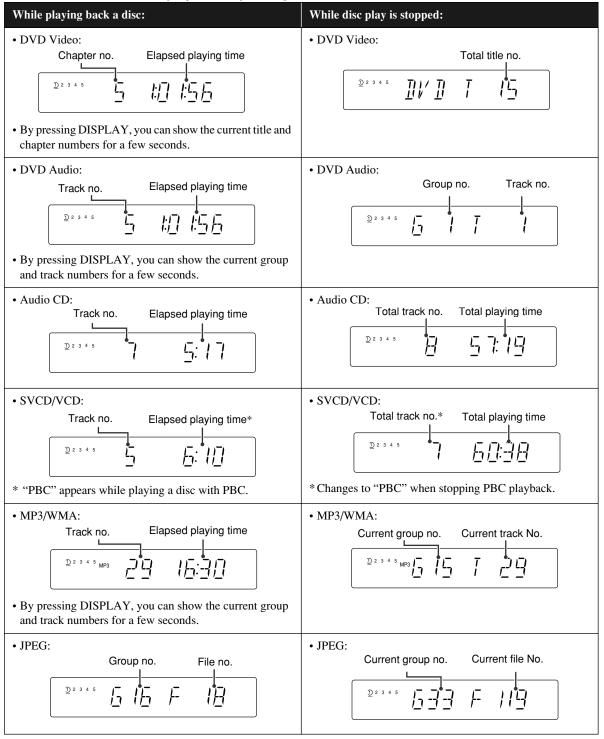
8 Repeat mode indicators

- 🗣 : lights when Repeat mode is activated.
- 1 DISC ALL A-B GR .:
- -1: lights when One Track Repeat is activated.
- -1DISC: lights when One Disc Repeat is activated.
- -ALL: lights when All Disc Repeat is activated.
- -A-B: lights when A-B Repeat is activated.
- -GR .: lights when Group Repeat is activated.
- 9 3D PHONIC indicator
  - Lights when 3D PHONIC is activated (see page 15).
- 10 SLEEP indicator
  - · Lights when the Sleep Timer is activated.
- 11 FM reception indicators
  - MONO: lights when FM reception mode is monaural.
  - ST (stereo): lights while an FM stereo station with sufficient signal strength is tuned in.

#### 12 Disc operation indicators

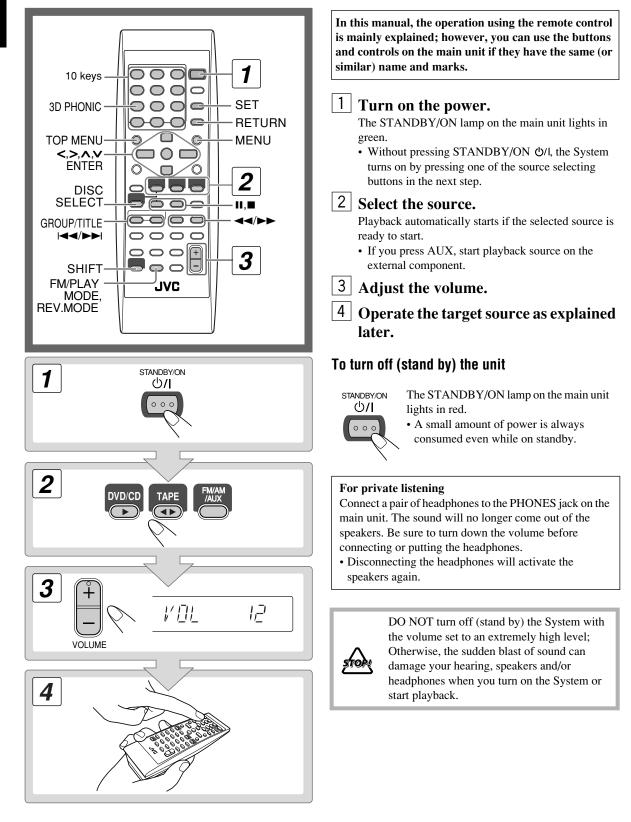
- PRGM (program): lights when Program Play mode is activated.
- RAND (random): lights when Random Play mode is activated
- **13** REC indicators
  - · Lights while recording.
- 14 BONUS indicator
  - · Lights when a DVD Audio with a bonus group is detected (see page 22).
- 15 B.S.P indicator
  - · Lights when the current disc is DVD Audio with browsable still picture (see page 23).
- 16 A (auto). STANDBY indicator
  - · Lights when Auto Standby is activated.
  - · Flashes when disc playback stops with Auto Standby activated.

#### Indications on the main display while operating a disc



• If Resume is turned "ON" (see page 40), "RESUME" appears when you stop playback (except for Audio CD and MP3/ WMA/JPEG discs).

# Daily Operations—Playback

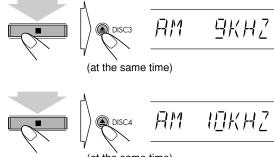


# Listening to the Radio

# To select the AM tuner interval spacing

Some countries space AM stations 9 kHz spacing, and other countries use 10 kHz spacing.

You can change the AM tuner intervals while the System is on stand by and the last selected source is AM.



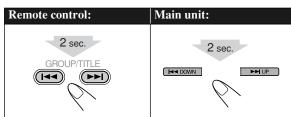
#### (at the same time)

#### To select the band (FM or AM)



#### To tune in to a station

While FM or AM is selected ...



Frequency starts changing on the display.

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

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

To stop searching manually, press either button.

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



The MONO indicator lights on the display. Reception will improve though stereo effect is lost—Monaural reception mode.

n)

**To restore the stereo effect,** press the button again (the MONO indicator goes off).

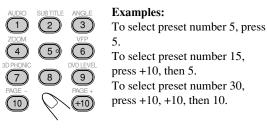
# To preset the stations (Senter >>>)



- **1** Tune in to a station you want to preset.
  - You can also store the monaural reception mode for FM preset stations if selected.
- **2** Activate the preset number entry mode.



- Finish the following process while the indication on the display is flashing.
- **3** Select a preset number for the station you store.



**4** Store the station.



## To tune in to a preset station

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



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



• You can also use the ◄◄/►► button to select a preset station.

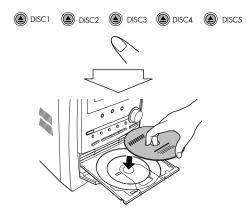
# Playing Back a Disc 🔷 🖉 🖉 🖉 🖉

Before operating a disc, be familiar how a disc is recorded.

- DVD Video comprises of "Titles" which includes "Chapters," DVD Audio/MP3/WMA comprise of "Groups" which include "Tracks," and CD/SVCD/VCD comprise of only "Tracks."
- For JPEG playback, see "Operations on the CONTROL Screen" on page 30.

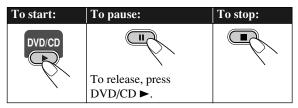
#### To insert a disc

You can insert a disc while playing another source.



To close the disc tray, press the same  $\triangle$  again.

- When current selected disc tray open, you use DVD/CD ► button to close disc tray and start playback (depending on how the disc is programmed internally).
- When you press ▲ for the next tray you want to place another disc onto, the first disc tray automatically closes and then next tray comes out.



• 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" appears on the display when you stop playback.)

To stop completely while Resume is activated, press ■ twice. (To cancel Resume, see "RESUME" on page 40.)

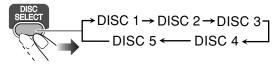
• When operating the System, the on-screen guide icon (see the following table) appears on the TV. To deactivate the on-screen guide icons, see "ON SCREEN GUIDE" on page 40.

#### On-screen guide icons

- During DVD Video playback, the following icons may appear on the TV screen:
  - At the beginning of a scene containing multiangle views.
  - (D) At the beginning of a scene containing multiaudio sounds.

At the beginning of a scene containing multisubtitles.

#### To select a disc

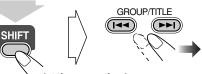


• When current source is not disc, press DVD/CD ► to select the disc player as the source during "PLAY" flashing on the display.

# To select a title/group

While playing ...





(at the same time)

• Group name appears for MP3/WMA discs.

## To select a chapter/track

While playing...



• First time you press I , you can go back to the beginning of the current chapter/track.

# To locate a particular portion

While playing a disc except MP3/WMA...

SLOW-	SLOW+		
		▶ x2→ ▶ x5	$\rightarrow \rightarrow \times 10 \rightarrow \rightarrow \times 20 \rightarrow \rightarrow \times 60$
	$\sim$		
<u>``</u>	$\overline{\sqrt{2}}$	<b>∢∢</b> x2→ <b>∢∢</b> x5	$\rightarrow 44 \times 10 \rightarrow 44 \times 20 \rightarrow 44 \times 60$
<u> </u>	$\overline{\mathbf{x}}$	<b>∢</b> x2 → <b>∢</b> x5	→ <b>{{</b> x10}→ <b>{{</b> x20}→ <b>{{</b> x60}

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

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



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.

#### To play back using the disc menu



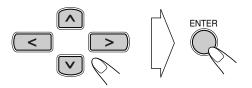
You can operate a disc—DVD and SVCD/VCD with Playback Control (PBC)—using the disc menu shown on the TV screen.

#### For DVD Video/DVD Audio:

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



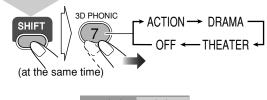
**2** Select an item on the disc menu.



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

## To use 3D Phonic

#### While playing ...



3D PHONIC ACTION

On the TV screen

ACTION	Suitable for action movies and sports
	programs.
DRAMA	Creates natural and warm sound. Enjoy
	movies in a relaxed mood.
THEATER	Enjoy sound effects like in a major theater.

# ■ 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.



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 a Tape

Insert

#### To insert a tape

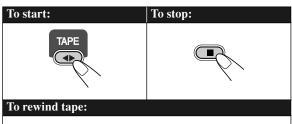
Push

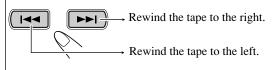
You can play back type I tapes.

Close

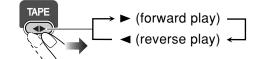


With the tape side facing outside

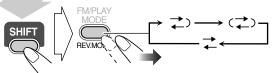




## To change the tape running direction

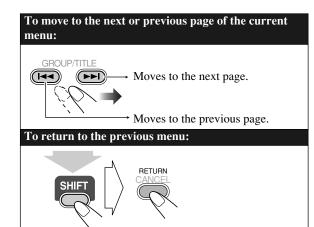


## To reverse the tape automatically



(at the same time)

<b>‡</b> )	Tape is played from the forward side to the reverse side. When the reverse side is played back, playback stops.
(ᢏ)	Tape is automatically reversed, and playback repeats until you stop it.
→ →	Tape will not be reversed. When the current side of the tape reaches its end, playback stops.



To cancel PBC

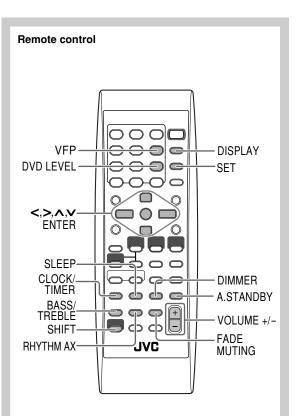


(at the same time)

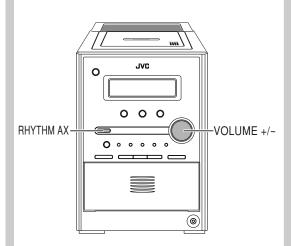
• You can also cancel PBC function by pressing the number button to select a track.

To reactivate PBC, press ■, then press I◄◄.

# Daily Operations—Sound&Other Adjustments

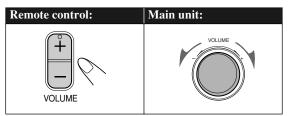


Main unit



# Adjusting the Volume

You can adjust the volume level from level 0 (VOL MIN) to level 50 (VOL MAX).



#### To drop the volume in a moment



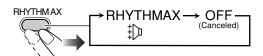


To restore the volume, press again, or adjust the volume level.

# Adjusting the Sound

#### To emphasize rhythm feeling—RHYTHM AX

This function emphasizes bass attack feeling.



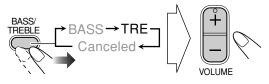
#### To adjust the tone

You can adjust the bass and treble level from -5 to +5.

To adjust the bass

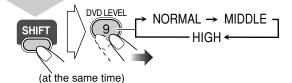


#### To adjust the treble



# Presetting Automatic DVD Sound Increase

The DVD 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, so you do not have to adjust the volume every time you change the source.



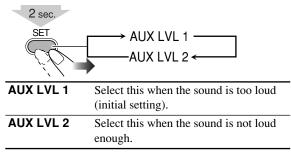
NORMAL	Original recording level.	
MIDDLE	Output level is increased (less than "HIGH").	
HIGH	Output level is increased (more than "MIDDLE").	

• Once the current DVD is ejected, this setting is canceled and set automatically to "NORMAL."

# Adjusting the Audio Input Level 🖉 🔊

If the sound from the component connected to the AUX jacks is too loud or is not loud enough when changing from another source to "AUX," you can change the audio input level through the AUX jacks (without changing the volume level).

While the "AUX" is selected as a source...



# Changing the Display Brightness

You can dim the display window.

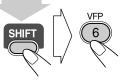
DIMMER	$\rightarrow DIM 1 \longrightarrow DIM 2 \longrightarrow DIM 0FF \leftarrow AUTO DIM \leftarrow (Canceled)$
DIM 1	Dims the display.
DIM 2	Erases the display illumination.
AUTO DIM	Erase the display illumination a few seconds after disc playback starts. • The display illuminates when playback stops.

# Changing the Picture Tone

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

# To select a preset picture tone

**1** Activate VFP.



NORMAL	
GAMMA	0
BRIGHTNESS	0
CONTRAST	0
SATURATION	0
TINT	0
SHARPNESS	0

(at the same time)

On the TV screen

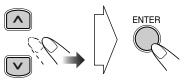
#### **2** Select a preset picture tone.



NORMAL	NORMAL Normally select this.				
<b>CINEMA</b> Suitable for a movie source.					
USER1/USER2	You can adjust parameters and can store the settings (see page 19).				

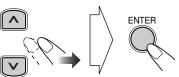
# To adjust the picture tone

- **1** Select "USER1" or "USER2."
- Follow steps **1** and **2** explained on page 18.
- **2** Select a parameter you want to adjust.



GAMMA	Adjust if the neutral color is bright or dark $(-3 \text{ to } +3)$ .
BRIGHTNESS	Adjust if the entire picture is bright or dark (-8 to +8).
CONTRAST	Adjust if the far and near positions are 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 to +8).

#### **3** Adjust the parameter.



#### 4 Repeat steps 2 to 3 to adjust other parameters.

To erase the screen, press VFP again while holding SHIFT.

# Setting the Clock

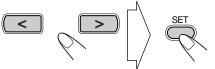
Without setting the built-in clock, you cannot use Daily Timers (see page 35) and Sleep Timer.

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

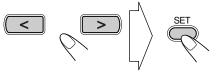
#### **1** Activate the clock setting mode.



- If you have already adjusted the clock before, press the button repeatedly until the clock setting mode is selected.
- **2** Adjust the hour.

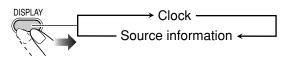


**3** Adjust the minute.



Now the built-in clock starts working.

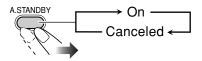
#### To check the current clock time during play



• While playing a DVD and MP3/WMA, you cannot check the current clock time (see page 11).

# Automatically

# To turn off the unit after playback is over—Auto Standby



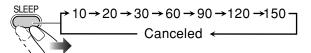
When Auto Standby is in use, the A.STANDBY indicator lights on the display.

When disc or tape play stops, the A.STANDBY indicator starts flashing. If no operation is done for about 3 minutes while the indicator is flashing, the System turns off (stands by) automatically.

• Auto Standby does not work while you are listening to radio (FM/AM) and the external component (AUX).

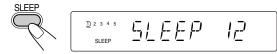
#### To turn off the unit after a certain period of time —Sleep Timer

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



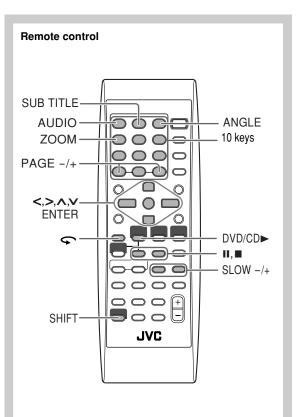
**2** Wait until the set time goes off.

To check the time remaining until the shut-off time



• If you press the button repeatedly, you can change the shutoff time.

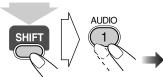
# **Unique DVD/VCD Operations**



# Selecting the Sound Track (Street with the So

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.

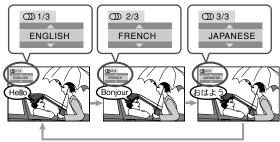
• You can also select the audio track using the on-screen bar (see page 27).



(at the same time)

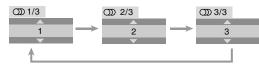
#### While playing a DVD Video...



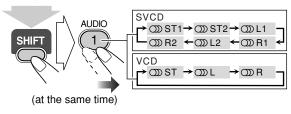


While playing a DVD Audio...

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. Karaoke 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 27).

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

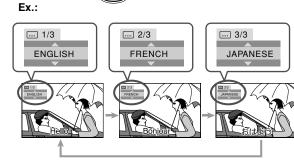
#### **7** Display the subtitle selection window.



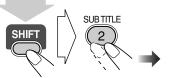
(at the same time)

#### **2** Select the subtitle language.

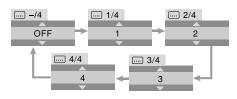




#### While playing an SVCD...



(at the same time)

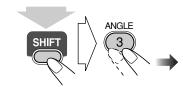


# Selecting the View Angle

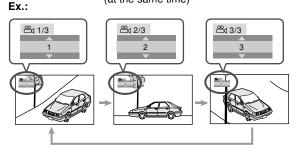
While playing back a chapter (of DVD Video) containing multi-view angles, you can view the same scene from different angles.

• You can also select the multi-view angles using the onscreen bar (see page 27).

While playing...



(at the same time)



# 

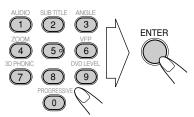
Some DVD Audios have a special group called "bonus group" whose contents are not open to the public.

• 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 14.

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



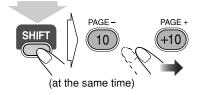
**3** Follow the interactive instructions shown on the TV screen.

To cancel the key number entry, press ■.

# Selecting Browsable Still Pictures

While playing back a track (of DVD Audio) linked to browsable still pictures (BSP), 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 (BSP), they are usually shown in turn automatically during playback.
- You can also select the page using the on-screen bar (see page 27).



# Special Effect Playback (

#### Still picture playback

To start still picture playback:	To resume normal 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 ►.

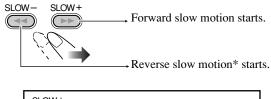
## Slow-motion playback

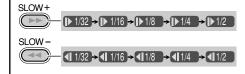
#### **1** While playing...



Still picture playback starts.

# **2** Select slow motion speed.





\*Not available for SVCD/VCD.

To resume normal playback, press DVD/CD ►.

# To replay the previous scenes (One touch replay function)

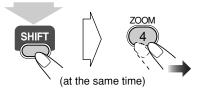
• This function is only used while playing DVD Video.

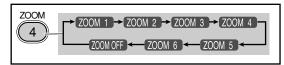


The playback position moves back 10 seconds before the current position (only within the same title).

# Zoom Remote Solly Sol

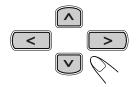
**1** While playing back....





As the number increases, magnification also increases.

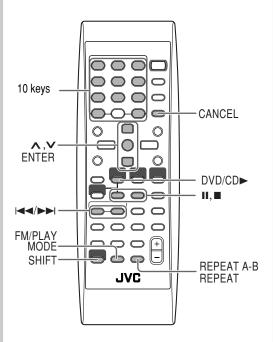
#### **2** Move the zoomed-in position.



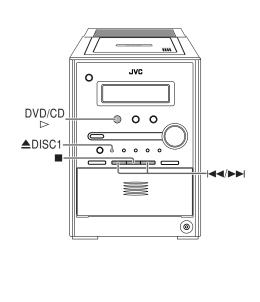
**To resume normal playback,** press ZOOM repeatedly until "ZOOM OFF" appears on the TV screen.

# **Advanced Disc Operations**

#### Remote control



#### Main unit



# Programming the Playing Order-Program Play

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

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



On the display

PROGRAM No	Disc	Group/Title	Track/Chapter	
2				
3				
4				
5				
6				
/				
8				
9 10				
10				

On the TV screen

# 2 Select chapters or tracks you want for Program Play.For DVD/MP3/WMA:

- ① Select a disc number.
- ② Select a title or group number.
- ③ Select a chapter or track number.

#### • For SVCD/VCD/CD:

- ① Select a disc number.
- Select tracks.
  - If the disc is not in current tray, the System may prompt for the group/title number entry as well, however, during playback, the System will ignore these entries.
  - You can use ENTER button to skip the group/title number entry.

#### To enter the numbers:

_	$\begin{array}{c} \text{AUDIO} \\ \textbf{1} \\ \textbf{2} \\ \textbf{2} \\ \textbf{3} \\ \text{COM} \\ \textbf{4} \\ \textbf{5} \\ \textbf{6} \\ 6$	Examples: To enter number 5, press 5. To enter number 15, press +10, then 5. To enter number 30, press +10, +10, then 10.

**3** Repeat the above step **2**.

# **4** Start playback.

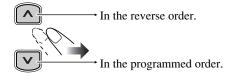


Playback starts in the order you have programmed.

To skip a step:	To pause:	To stop:
	To release, press DVD/CD ►.	

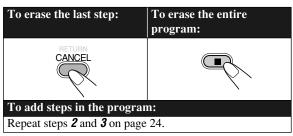
#### To check the programmed contents

Before or after playback ...



#### To modify the program

Before or after playback ...



## To exit from Program Play

Before or after playback...

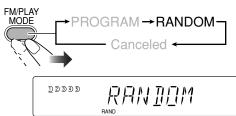


# Playing at Random—Random Play

You can play the chapters or tracks of all loaded discs at random.

• Random Play cannot be used for some DVDs.

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



## **2** Start playback.



Playback starts in random order. Random Play ends when all the tracks are played once (when Repeat Play is not activated).

To skip a chapter/ track:	To pause:	To stop:
To skip to the begin- ning of the current track, press I◄◀ .	To release, press DVD/CD ►.	

• During Random Play, you cannot select disc by using DISC SELECT button.

#### To exit from Random Play

Before or after playback ...





# Playing Repeatedly

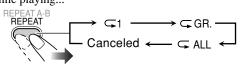
• You can also select the repeat mode using the on-screen bar (see page 28).

#### **Repeat Play**

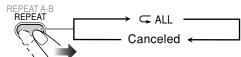
You can repeat playback.

#### • For DVD Video:

While playing...



Before starting playback ...



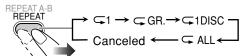
#### • For DVD Audio:

While playing or before playback...



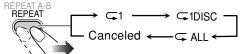
#### • For MP3/WMA:

While playing or before playback ...

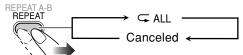


#### • For CD/SVCD/VCD:

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

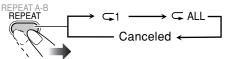


While playing (with PBC for SVCD/VCD) ...



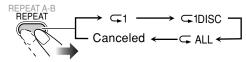
#### • For Program Play:

While playing or before playback...



For Random Play:

While playing or before playback...

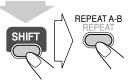


Ģ ALL	Repeats all discs in all tray or all programmed tracks.
<b>⊊</b> 1	Repeats the current chapter/track.
<b>GR.</b> Repeats the current title/group.	
Ģ 1DISC	Repeats the current disc.
Canceled	Cancels Repeat Play mode.

## A-B Repeat

You can repeat playback of a desired portion by specifying the beginning (point A) and the ending (point B).

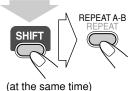
- A-B Repeat cannot be used for MP3/WMA and for some DVDs.
- A-B Repeat can be used within the same title while playing a DVD Video, and within the same track for the other discs.
- **1** While playing (without PBC for SVCD/VCD), select the start point (A).



→ A- lights on the display.
• △ A- appears on the TV screen if the TV is turned on.

(at the same time)

2 Select the end point (B).



- → A- changes to → A-B.
  → A-B appears on the TV screen.
- You can search for the end point using the ►► button.

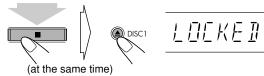
To cancel A-B Repeat, press REPEAT A-B again while holding SHIFT.

# Prohibiting Disc Ejection—Child Lock

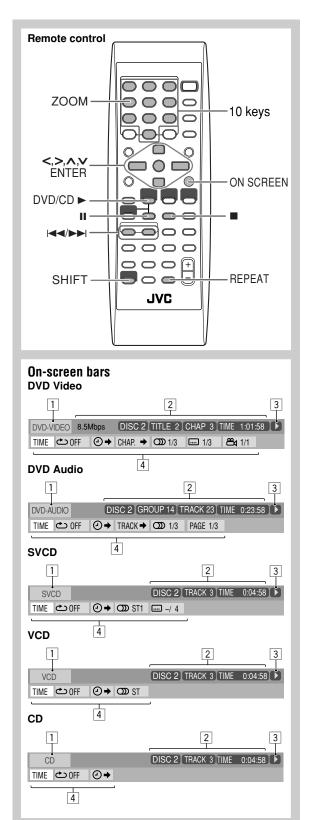


You can lock the disc trays so that no one can eject the loaded disc.

• This is possible while the System is on standby. While the disc trays are closed...



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



# On-screen Bar Information 🔵 🔵 🔵

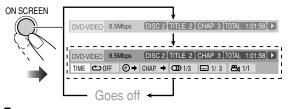
You can check the disc information (except for MP3/WMA/ JPEG disc) and use some functions through the on-screen bar.

1 Disc type				
2 Playback info	rmation			
Indication	Meanings			
Mbps	Current transfer rate			
DISC 2	(Megabits per second)			
TITLE 2	Current disc Current title			
CHAP 3	Current chapter			
GROUP 1	Current group			
TRACK 14	Current track			
TOTAL 1:25:58	Time indications			
<b>3 Operation mo</b>	odes			
Indication	Meanings			
	Playback			
	Forward/Reverse search			
	Forward/Reverse slow-motion			
	Pause			
0	Stop			
4 Function icons (on the pull-down menu)				
Indication	Meanings			
TIME	Select to change the time indication.			
COFF	Select to repeat playback.			
⊘⇒	Select for time search.			
CHAP. →	Select for chapter search.			
TRACK →	Select for track search.			
CDD 1/3	Select to change the audio language or channel (see also page 21).			
···· 1/3	Select to change subtitle language (see also page 22).			
<b>2</b> 1/3	Select to change the view angle (see also page 22).			
PAGE 1/5	Select to change the page (see also page 23).			

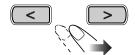
# Operations Using the On-screen Bar

Ex.: Selecting a subtitle (French) for DVD Video: While a disc is selected as the source...

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



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



DVD-VIDEO	8.5Mbps	DISC 2 TITLE 2	CHAP 3 T	TOTAL 1:01:58
TIME 🖒	)FF ⊙⇒	CHAP. → 🛯 1/3	···· 1/ 3	<b>84</b> 1/1

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



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



2 TITLE 2 CHAP 3 TOTAL 1:01:58 ► → CDD 1/3 □ 2/3 은 1/1 FRENCH

#### **5** Finish the setting.



Pop-up window goes off.

To erase the on-screen bar



For detailed operations of the following functions, see also "Operations Using the On-screen Bar" on the left.

#### 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	DISC 2	TITLE 2	CHAP 3 T	OTAL 1:01:58	
TIME 🖒	)FF ②→	CHAP. 🔶	<b>CDD</b> 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 26.
- 1 While playing a disc (without PBC for SVCD/VCD), display the on-screen bar with the pull-down menu.
- 2 Select COFF.
- 3 Display the pop-up window.



#### 4 Select the repeat mode you want.

ALL	Repeats all discs or all programmed track.
A-B	Repeats a desired portion (see next column).
TITLE	Repeats the current title.
GROUP	Repeats the current group.
DISC	Repeats the disc (except for DVD).
CHAPTER	Repeats the current chapter.
TRACK*	Repeats the current track.
OFF	Cancels Repeat Play.

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

#### 5 Finish the setting.



#### A-B Repeat

• See also page 26.

- 1 While playing, display the on-screen bar with the pulldown menu.
- 2 Select COFF.
- 3 Display the pop-up window.



4 Select "A-B".



5 Select the start point (A).



6 Select the end point (B).



A-B Repeat starts. The selected portion plays repeatedly.Before pressing ENTER, you can

search for the end point using  $\blacktriangleright$ .

### **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	8.5Mbps	DISC 2	TITLE 2	CHAP 3	TOTAL 1:0 <sup>-</sup>	1:58 🕨
TIME 🖒 (	)FF ⊙→	CHAP. 🔶	<b>CDD</b> 1/3	···· 1/ 3	<b>84</b> 1/1	
	TIME	_::				

#### 4 Enter the time.

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



#### 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).
- To correct a misentry, press cursor < to erase the last entry.
- 5 Finish the setting.



The System starts playing the disc from the selected playing time.

## **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-VIDEO	8.5Mbps	DISC 2	TITLE 2	CHAP 3 1	TOTAL 1:0	1:58 🕨
TIME 🖒 0	IFF <b>②→</b>	CHAP. 🔶	<b>CDD</b> 1/3	···· 1/ 3	<b>ස්</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.

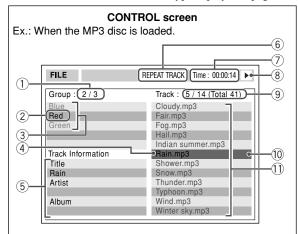


The System starts playing the searched chapter or track.

# Operations on the CONTROL Screen (

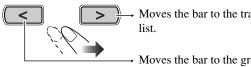
The CONTROL screen automatically appears on the TV screen when you load an MP3, WMA, or JPEG disc. You can search for and play the desired tracks through the CONTROL screen.

• If both types of files (MP3/WMA files and JPEG files) are recorded on a disc, select the file type to play (see page 39).



- ① Current group number/total group number
- ② Current group
- ③ Group list
- ④ Current track (in blue)
- Track information (ID3 Tag Version 1.0: only for MP3/WMA)
- 6 Repeat Play setting
- Elapsed playing time of the current track (only for MP3/WMA)
- ⑧ Operation mode icon
- ④ Current track number/total number of tracks in the current group (total number of tracks on the loaded disc)
- 10 Highlight (green) bar
- ① Track list

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



Moves the bar to the track

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:	
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 few seconds, then changes one after another.

- Once you start playing back a JPEG track, the CONTROL screen goes off.
- To cancel slide-show, and display the current still picture, press ENTER.

To skip a track:	To pause:	To stop playback:
	To release, press DVD/CD ►.	

#### To repeat slide-show for JPEG

While playing or before starting playback...

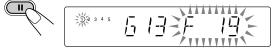


GR.	Repeats the current group.
Ģ 1DISC	Repeats the current disc.
G ALL	Repeats all disc.

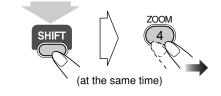
• For Repeat Play of MP3/WMA, see page 26.

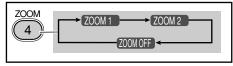
#### To zoom in the still picture

- You cannot zoom in the still picture during slide-show.
- 1 While playing...



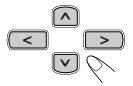
2 Change the magnification.





As the number increases, magnification also increases.

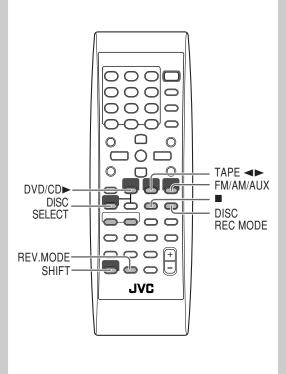
#### 3 Move the zoomed-in position.



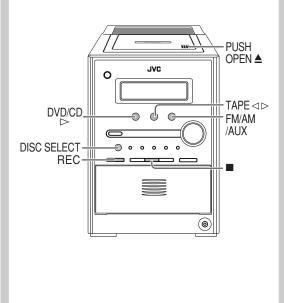
To resume normal playback, press ZOOM repeatedly until "ZOOM OFF" appears on the TV screen.

# **Advanced Tape Operations**

#### Remote control



#### Main unit



#### IMPORTANT

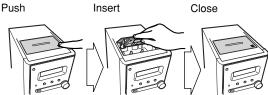
It may be unlawful to record or play back copyrighted material without the consent of the copyright owner.

# Recording on a Tape

You can use type I tapes for recording. • To play a tape, see page 16.

To play a tape, see page 10.

# **1** Insert a recordable cassette.



With the tape side facing outside

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

 D 2 3 4 5
 Image: A 5

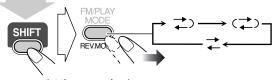
 D 2 3 4 5
 Image: A 5

 Current source
 Reverse mode indicator

#### To change the direction



#### To change the Reverse mode if necessary



(at the same time)

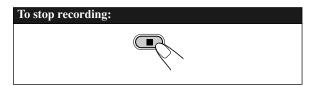
↓ ( (↓)	<ul> <li>To record on both sides.</li> <li>When using Reverse mode, start recording in the forward (►) direction.</li> </ul>
<b>→</b>	To record on only one side.

- **3** Select and start playing the source—"FM," "AM," "DVD/CD," or "AUX."
  - When recording a disc, you can also use "Synchronized Disc Recording" (see below).

# **4** Start recording.



On the main unit



• While recording a disc, recording stops automatically after the disc player plays back the disc.

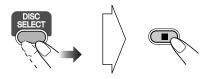
# Synchronized Disc Recording

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 32.

**3** Select the disc number you want to start recording from.



#### **4** Select the Recording mode.



ONE DISC	Records the entire disc.
ALL DISC	Records the all loaded discs continuously (except for DVD Video/DVD Audio).
1ST TRK	Records the first track of each disc (only for SVCD/VCD/CD).

# **5** Start recording when the recording mode selected in step **4** is still shown on the display.



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

On the main unit

- If the loaded disc is not compatible for the current recording mode, the disc player skips the disc and loads the next one.
- When either disc play or recording ends, both disc player and the cassette deck stop at the same time.

#### To record a "Live" disc

It will not be desirable to put 4-second blank portions between the tunes recorded on the tape. To record the entire disc without any interruption recorded, pause the disc play (press II on the remote control) before pressing REC.

#### To record Program Play or Random Play

- 1 Select Program Play (and make a program) or Random Play, but do not start playback.
- 2 Press REC to start recording.
- When disc play stops, recording continues. It is required that recording be stopped manually.

### To record only your favorite track

You can specify tracks to be recorded on the tape while listening to a disc.

• This function is not available for DVD Video.

#### **1** Start playing a disc.



**2** While a track you want to record on the tape is playing...



On the main unit

The disc player returns to the beginning of that track and the track is recorded on the tape. After recording the track, the disc player and cassette deck automatically stop.

# **3** Repeat steps **2** and **3** to record other tracks you want.

• You can exchange the discs if necessary.

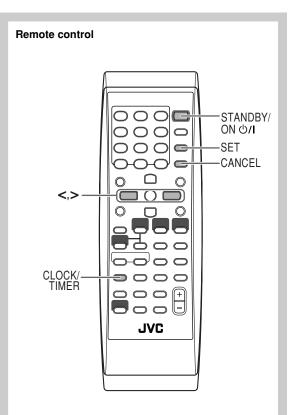
**To protect your recording** Cassettes have two small tabs on the back to protect from unexpected erasure or re-recording. **To protect your recording,** remove these tabs.



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



# **Timer Operations**



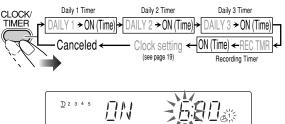
# Setting the Timer (Setting way)

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

- You can store three Daily Timer settings and one Recording Timer setting; however, you can activate only one of Daily Timers or Recording Timer at the same time.
- To exit from the timer setting, press CLOCK/TIMER as required.
- To correct a misentry during the process, press CANCEL. You can return to the previous step.

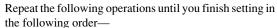
Timer initial settings when shipped from the factory:

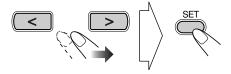
- DAILY 1:ON Time (6:00)/OFF Time (8:00)/ Source (TUNER FM 1)/Volume level (--)
- DAILY 2:ON Time (12:00)/OFF Time (14:00)/ Source (TUNER FM 1)/Volume level (- -)
- DAILY 3:ON Time (18:00)/OFF Time (20:00)/ Source (TUNER FM 1)/Volume level (- -)
- REC TMR:ON Time (8:00)/OFF Time (10:00)/ Source (TUNER FM 1)
- **1** Select one of the timer setting modes you want to set— Daily 1 ON time, Daily 2 ON time, Daily 3 ON time, or Recording Timer ON time.



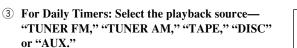
Ex. When Daily Timer 1 setting mode is selected

- When the clock has not been adjusted, pressing CLOCK/TIMER makes the System enter the clock setting mode.
- **2** Make the timer setting as you want.





- ① Set the hour then minute for on-time.
- **2** Set the hour then minute for off-time.





For Recording Timer: Select the playback source—"TUNER FM,""TUNER AM" or "AUX."

(4) For "TUNER FM" and "TUNER AM": Select a preset channel.

For "DISC": Select the disc number, group/title number, then the track/chapter number.

- **5** For Daily Timers: Select the volume level.
  - You can select the volume level ("VOL 1" to "VOL 50" and "VOL –"). If you select "VOL –," the volume is set to the last level when the unit has been turned off.

#### For Recording Timer: The volume level is set automatically to the last level when the unit has been turned off.

Once settings are complete, the Timer setting information appears in sequence.

**3** Turn off the unit (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 ( O ) indicator and timer number indicator (1/2/3) 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) or another timer is activated.

#### When the on-time comes

The System turns on, tunes in to the specified station or start playing the loaded disc with the specified chapter or track, and sets the volume level to the preset level.

• While Daily Timer is working, the timer ( ④ ) indicator and timer number indicator (1/2/3) flash on the display.

#### When the off-time comes

The System stops playback, and turns off (stands by) automatically.

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

#### How Recording Timer actually works

When Recording Timer has been set, Timer (  $\bigcirc$  ) 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 last level when the unit has been turned off, and starts recording.

#### When the off-time comes

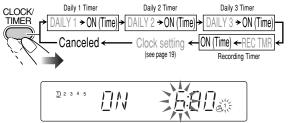
The System stops recording, and turns off (stands by).

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

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

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.



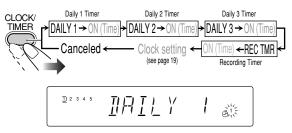
Ex.To cancel Daily Timer 1

#### 2 Turn off the selected Timer.



#### To turn on the Timer

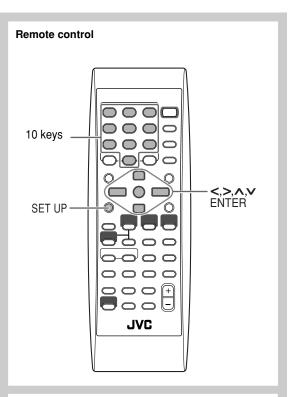
1 Select the Timer (DAILY 1, DAILY 2, DAILY 3, or REC TMR) you want to activate.



Ex.When Daily Timer 1 is selected

2 Activate the selected Timer.

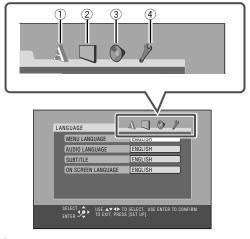




#### Setup Menu Icons

The icon for the selected Setup Menu will be highlighted.

#### Ex.: LANGUAGE Setup Menu is selected.



- ① LANGUAGE Setup Menu
- ② PICTURE Setup Menu
- 3 AUDIO Setup Menu
- (4) OTHERS Setup Menu

# Operating Procedure

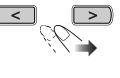
You can use the Setup Menus only when a disc is selected as the source and its playback is not yet started. Ex.: Selecting "STILL PICTURE" for "FILE TYPE":

#### **1** Display the Setup Menu.





#### **2** Select one of the Setup Menus.



PICTURE	A . O /
MONITOR TYPE	4:3 LB
PICTURE SOURCE	AUTO
SCREEN SAVER	ON
FILE TYPE	AUDIO

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





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



PICTURE		
MONITOR T	YPE	4:3 LB
PICTURE SC	URCE	AUTO
SCREEN SAU	/ER	ON
FILE TYPE		AUDIO STILL PICTURE
	USE AV TO TO EXIT, PRE	SELECT. USE ENTER TO CONFIRM SS (SET UP).

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



_	- F - F - ·	
	PICTURE	A 🗆 🔿 🎢
	MONITOR TYPE	4:3 LB
	PICTURE SOURCE	AUTO
	SCREEN SAVER	ON
	FILE TYPE	AUDIO
		STILL PICTURE
	SELECT A USE AT TO	SELECT. USE ENTER TO CONFIRM
	ENTER 2 TO EXIT, PRE	SELECT. USE ENTER TO CONFIRM ISS (SET UP).

#### *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 erase the Setup Menu



### ■ LANGUAGE Setup Menu

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

LANGUAGE	
MENU LANGUAGE	ENGLISH
AUDIO LANGUAGE	ENGLISH
SUBTITLE	ENGLISH
ON SCREEN LANGUAGE	ENGLISH
SELECT USE AT TO EXIT, PRES	O SELECT. USE ENTER TO CONFIRM S (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 47).

#### **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 47).

#### SUBTITLE

Some discs have multiple subtitle languages. Select from—ENGLISH, SPANISH, FRENCH, CHINESE, GERMAN, ITALIAN, JAPANESE, AA – ZU (see "Language Code List" on page 47) or "OFF (no subtitle)."

#### **ON SCREEN LANGUAGE**

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

### PICTURE Setup Menu

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

PICTURE	A 🗆 🔍 🎢
MONITOR TYPE	4:3 LB
PICTURE SOURCE	AUTO
SCREEN SAVER	ON
FILE TYPE	AUDIO
	TO SELECT. USE ENTER TO CONFIRM ISS [SET UP].

#### **MONITOR TYPE**

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 (see "To set the video output selector" on page 7).

#### Select one of the following:

**16:9** / **16:9 MULTI (Wide television conversion):** Select when the aspect ratio of your TV is 16:9 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 picture 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) and still picture (JPEG 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.

#### ■ AUDIO Setup 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.
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 "DVD OPTICAL DIGITAL OUT Signals" on page 49.

#### DOWN MIX

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

When playing a multi-channel DVD, the System converts the signals into 2 channels properly.

#### Select one of the following:

DOLBY	To connect an amplifier with the Dolby
SURROUND:	Pro Logic decoder.
STEREO:	To connect a conventional stereo amplifier, receiver, MD player, TV, etc.

### **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 apply the compression effect to the
	downmixed multi-channel sound.

ON: To always apply the compression effect for all Dolby Digital software. Loud sound will become low and vice versa.

#### OTHERS Setup Menu

You can change some other convenient functions.



#### RESUME

You can activate or deactivate Resume for disc playback (see page 14).

#### 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 14).

• 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 VIDEO-3 Input jack on the TV.
DVD2:	To connect to the VIDEO-1 Input jack on the TV.
DVD3:	To connect to the VIDEO-2 Input jack on the TV.

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.

# 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

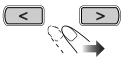
Set the rating level—Level 1 (most restrictive) to Level 8 (least restrictive).

### **1** Display the Setup Menu.



LANGUAGE	
MENU LANGUAGE	ENGLISH
AUDIO LANGUAGE	ENGLISH
SUBTITLE	ENGLISH
ON SCREEN LANGUAGE	ENGLISH
ENTER 2 USE AT TO EXIT, PRES	D SELECT. USE ENTER TO CONFIRM B (SET UP).

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





#### **3** Select "PARENTAL LOCK."



RESUME	ON
ON SCREEN GUIDE	ON
AV COMPULINK MODE	DVD1
PARENTAL LOCK	

#### **4** Enter the PARENTAL LOCK submenu.



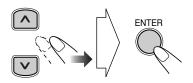
Ρ.	ARENTAL LOCK	
	COUNTRY CODE	MY
	SET LEVEL	NONE
	PASSWORD	
	EXIT	
		·

**5** Select "COUNTRY CODE," then display the pop-up window.

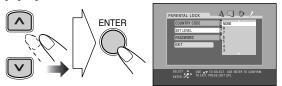


#### **b** Select the country code of your area.

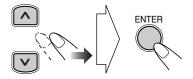
• See "Country/Area Codes List" on page 48 to find your country code.



7 Make sure "SET LEVEL" is selected, then display the pop-up window.

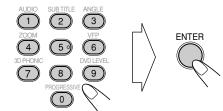


**8** Set the rating level (NONE, 8 - 1).



The System automatically enters "PASSWORD" entry mode.

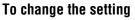
**9** Make sure "PASSWORD" is selected, then enter any 4-digit number for your password.



**10** Finish the setting.

ENTER





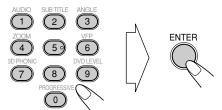
**1** Display the PARENTAL LOCK sub menu.

• 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.

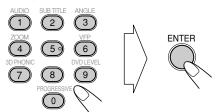


- If you enter a wrong password, "----" appears again.
- If you enter a wrong password three times, "EXIT" is automatically selected. In this case, press ENTER to exit from the PARENTAL LOCK submenu.
  If you forget your password, enter "8888."

# **3** Change the settings.

• Follow steps **5** to **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.

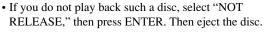
#### To release Parental Lock temporarily

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.

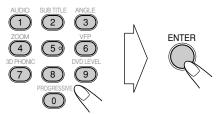
PARENTAL LOCK	
TEMPORARY RELEASE	
NOT RELEASE	
PASSWORD	
SELECT SELECT. USE ENTER TO CONFIRM.	

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

"PASSWORD" is automatically selected.



#### **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.

# **Additional Information**

# Learning More about This System

#### Getting Started (see pages 3 to 7)

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

• To enjoy the progressive video picture, connect a TV with the progressive video input using component video cord.

#### Before Operating the System (see pages 8 to 11) **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.

#### Daily Operations—Playback (see pages 12 to 16) 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:**

- When using an 8 cm disc, place it on the inner circle of the disc trav.
- 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.
- When discs\* in more than one tray are loaded on the disc trays, they are played in sequence as follows:

Ex.: When DISC 2 is selected:

- DISC 2⇒DISC 3⇒DISC 4⇒DISC 5⇒DISC 1 (then stops)
- \* When no disc is loaded on the tray, that disc number is skipped.
- · You can exchange discs while playing or selecting another disc.
- Some DVD Audio discs prohibit downmixed output. When you play back such a disc, "LR ONLY" appears on the display and the System plays back the left front and right front signals.
- 3D Phonic setting is also applied to the optical digital output signals through the DVD OPTICAL DIGITAL OUT terminal.
- When using Resume on SVCD or VCD with PBC, the playback might start on a position slightly different from where you have stopped.

- · You can use Resume only for the DVD/SVCD/VCD except for some discs-depending how the disc is programmed.
- · Resume function does not work during Program Play and Random Play.
- For MP3/WMA/JPEG playback...
  - This System cannot play "packet write" discs.
  - MP3/WMA/JPEG discs are required a longer readout time than regular CDs. (It depends on the complexity of the group/file configuration.)
  - Some MP3/WMA/JPEG files cannot be played back and will be skipped. This result from their recording processes and conditions.
  - When making MP3/WMA discs, use ISO 9660 Level 1 or Level 2 for the disc format.
  - This System can play back MP3/WMA/JPEG files with the extension code <.mp3>, <.wma> or <.jpg> (regardless of the letter case-upper/lower).
  - It is recommended that you make each MP3 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.
  - This System can recognize the total of 1000 tracks and of 99 groups (each group can contain up to 150 tracks). Those exceeding the maximum number cannot be recognized.

# Daily Operations—Sound&Other Adjustments (see pages 17 to 20)

#### Adjusting the Volume:

- Be sure to turn down the volume before connecting or putting the headphones.
- Adjusting the Sound:
- This function also affects the sound through the headphones.

#### 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 21 to 23)

- · During slow-motion playback, no sound will be reproduced.
- One touch replay function works only within the same title, though it works between chapters.
- One touch replay function does not work during Program Play and Random Play.
- While zoomed in, the picture may look coarse.

#### Advanced Disc Operations (see pages 24 to 26) **Programming the Playing Order—Program Play:**

- If you try to program a 100th track, "MEM FULL (memory full)" appears on the display.
- 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).

- You cannot use Program Play and Random Play for JPEG discs.
- You cannot eject tray while in Program Play.

#### Playing at Random—Random Play:

• The I det button does not work for skipping chapters or tracks, but only work for going back to the beginning of the current chapter or track.

#### On-Screen Disc Operations (see pages 27 to 31)

• 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 System may not play back JPEG files properly which are recorded by the devices other than digital still camera.
- If progressive or lossless JPEG files are played back, a black screen appears. In this case, stop playback and select a baseline JPEG file. Note that it may take a long time to select another file.

#### Advanced Tape Operations (see pages 32 to 34)

#### **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 end of cassette tapes. Thus, when recording CDs or radio broadcasts, wind the leader tape first to ensure that the recording will be made without any music part lost.
- If you start recording with no cassette inserted, "NO TAPE" appears on the display. If a protected tape has been inserted, "NO REC" appears.
- 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 can also change Reverse mode setting  $(\rightarrow)$  and  $\rightarrow)$  after starting recording.
- You cannot open or close the disc tray while recording a disc.

#### Synchronized Disc Recording:

• When the tape reaches its end in the forward direction (►) during recording with Reverse mode set to →), the last tune will be re-recorded at the beginning of the reverse side (except for DVD Video).

#### Timer Operations (see pages 35 and 36)

- 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 start recording.
- 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.

#### **Setup Menu Operations** (see pages 37 to 42) LANGUAGE Setup 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 Setup Menu—MONITOR TYPE:

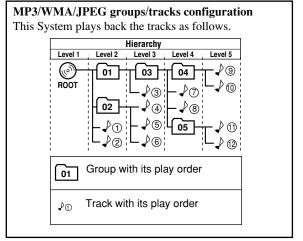
- Even if "4:3 PS" is selected, the screen size may become 4:3 letter box with some DVD Video discs. This depends on how the discs are recorded.
- When you select "16:9" for a picture whose aspect ratio is 4:3, the picture slightly changes due to the process for converting the picture width.

#### AUDIO Setup Menu—DOWN MIX:

• This setting is not effective when DTS multi-channel software is played back.

#### OTHERS Setup Menu—ON SCREEN GUIDE:

• Setup Menus 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 and mechanism clean.

### Handling discs

- When removing the disc from its case, hold 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.
- 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.

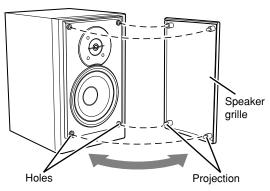
### Handling cassette tapes

- 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 strongly.
- 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.

#### To remove the speaker grilles



# 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 the 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 scanning.
- ⇒ 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 38).

#### **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.

#### ID3 Tag on an MP3/WMA 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/WMA/JPEG 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 or JPEG tracks are not played back.

- ⇒ The inserted disc may includes both type of tracks (MP3/WMA files and JPEG files). In this case, you can only play back the files selected by the "FILE TYPE" setting (see page 39).
- ⇒ You have changed the "FILE TYPE" setting after you inserted a disc. In this case, reload the disc.

#### "NO AUDIO" appears.

⇒ This System cannot play back illegally produced DVD Audio discs.

#### "LR ONLY" appears.

⇒ Some DVD Audio discs prohibit downmixed output. When you play back such a disc, this System plays back the left front and right front signals only.

#### The disc sound is discontinuous.

 $\Rightarrow$  The disc is scratched or dirty.

#### 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 26).

#### **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 and Recording Timer do not work.

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

#### Setup Menu Operations:

# 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 (while holding SHIFT) after starting play (see page 22).

# 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 (while holding SHIFT) after starting play (see page 21).

# 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
CO	Corsican
CS	Czech
CY	Welsh
DA	Danish
DZ	Bhutani
EL	Greek
EO	Esperanto
ET	Estonian
EU FA	Basque
FA FI	Persian Finnish
FI FJ	Finnish
гј FO	Fiji Faroese
FY	Frisian
GA	Irish
GD	Scots Gaelic
GL	Galician
GN	Guarani
GU	Gujarati
HA	Hausa
HI	Hindi
HR	Croatian
HU	Hungarian
HY	Armenian
IA	Interlingua
IE	Interlingue
IK	Inupiak
IN	Indonesian
IS	Icelandic
IW	Hebrew
JI	Yiddish
L‴	

JW	Javanese
KA	Georgian
КК	Kazakh
KL	Greenlandic
КМ	Cambodian
KN	Kannada
KO	Korean (KOR)
KS	Kashmiri
KU	Kurdish
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
OM	(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

SL	Slovenian
SM	Samoan
SN	Shona
SO	Somali
SQ	Albanian
SR	Serbian
SS	Siswati
ST	Sesotho
SU	Sundanese
SV	Swedish
SW	Swahili
ТА	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 🔵

# des List ••••••••••••••••••••••

4	
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
вј BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia
BR	Bonvia Brazil
BS	Bahamas
BS BT	
BV	Bhutan
BW	Bouvet Island
ы ВҮ	Botswana Belarus
BZ	Belize
CA	Canada
CC	Cocos (Keeling) Islands
CF	Central African Republic
CG	Congo
CH	Switzerland
CI	Côte d'Ivoire
СК	Cook Islands
CL	Chile
СМ	Cameroon
CN	China
CO	Colombia
CR	Costa Rica
CU	Cuba
CV	Cape Verde
CX	Christmas Island
CY	Cyprus
CZ	Czech Republic
DE	Germany
DJ	Djibouti
	1

DK	Denmark
DM	Dominica
DO	Dominican Republic
DZ	Algeria
EC	Ecuador
EE	Estonia
EG	Egypt
EH	Western Sahara
ER	Eritrea
ES	Spain
ЕТ	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
GS	South Georgia and the South
	Sandwich
GT	Guatemala
GU	Guam
GW	Guinea-Bissau
GY	Guyana
HK	Hong Kong
HM	Heard Island and McDonald
IIN	Islands
HN	Honduras
HR	Croatia
HT HU	Haiti
ID	Hungary Indonesia
ID IE	Indonesia
IE IL	Ireland
	Israel
IN	
IO	British Indian Ocean Territory
IQ IP	Iraq Iran (Islamia Banublia of)
IR	Iran (Islamic Republic of)
IS IT	Iceland
IT JM	Italy
JIVI	Jamaica

JO	Jordan
JP	Japan
KE	Kenya
KG	Kyrgyzstan
КН	Cambodia
KI	Kiribati
KM	Comoros
KN	Saint Kitts and Nevis
KP	Korea, Democratic People's
	Republic of
KR	Korea, Republic of
KW	Kuwait
KY	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
LV	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 New Caledonia
NC	
NE	Niger
NF	Norfolk Island
NG	Nigeria
NI	Nicaragua
NL	Netherlands
NO	Norway

NP	Nepal
NR	Nauru
NU	Niue
NZ	New Zealand
ОМ	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
TH	Thailand
TJ	Tajikistan
TK	Tokelau
ТМ	Turkmenistan
TN	Tunisia
то	Tonga
ТР	East Timor
TR	Turkey

TT	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

# DVD OPTICAL DIGITAL OUT 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 Digital bitstream		48 kHz, 16 bit Linear PCM
with DTS	DTS bitstream	48 kHz, 16 bi	t 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	DTS bitstream	48 kHz, 16 bi	t Linear PCM
SVCD, VCD, CD	44.1 kHz, 16 bit Linear PCM/48 kHz, 16 bit Linear PCM		
CD with DTS	DTS bitstream	44.1 kHz, 16 t	oit Linear PCM
MP3/WMA disc	32/44.1/48 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 DVD OPTICAL DIGITAL OUT terminal if the discs are not copy-protected.



# Specifications

### **Amplifier section**

Output Power:		
HIGH:	40 W (20 W+ 20 W	W) at 4 $\Omega$ (10% THD)
	50 W (25 W+ 25 W	V) at 4 Ω (10% MAX)
LOW:	40 W (20 W+ 20 W	V) at 4 $\Omega$ (10% THD)
	50 W (25 W+ 25 V	V) at 4 $\Omega$ (10% MAX)
Analog input:		
AUX:	Sensitivity/Impe	dance (at 1 kHz)
non.		at "AUX LEVEL 1")
		at "AUX LEVEL 2")
	200 111 ( ) 1 ( 122 (	( HONEL ( DE 2 )
Digital output: DVD OPTICAL DIGITAL OUT:		
D V D OI HEAR		dBm (660 nm ±30 nm)
	-21 dbii to -15	
VIDEO OUT:		
Color system:N	TSC/PAL selectable	
VIDEO (con	mposite):	1 V(p-p)/75 Ω
S-VIDEO: Y (luminance)		1 V(p-p)/75 Ω
1	C (chrominance, but	rst)
		0.286 V(p-p)/75 Ω
COMPONENT: (Interlace/Progressive):		
	(Y)	1 V(p-p)/75 Ω
	$(P_B/P_R)$	0.7 V(p-p)/75 Ω
Speaker Ter	minals:	$4 \Omega - 16 \Omega$

Others:

AV COMPU LINK x 2 (\$ 3.5)

#### **Tuner section**

 FM tuning range:
 87.5 MHz – 108.0 MHz

 AM tuning range:
 531 kHz – 1 710 kHz (at 9 kHz)

 530 kHz – 1 710 kHz (at 10 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 format) DVD-R/DVD-RW (recorded in video format) Dynamic range: 90 dB Horizontal resolution: 500 lines Immeasurable Wow and flutter: MP3 recording format: MPEG 1/2 Audio Layer 3 Max. Bit rate: 320 kbps

#### **Cassette deck section**

Frequency response Normal (type I): 50 Hz – 14 000 Hz Wow and flutter: 0.15% (WRMS)

#### General

#### **Supplied Accessories**

See page 3.

#### **Speakers**

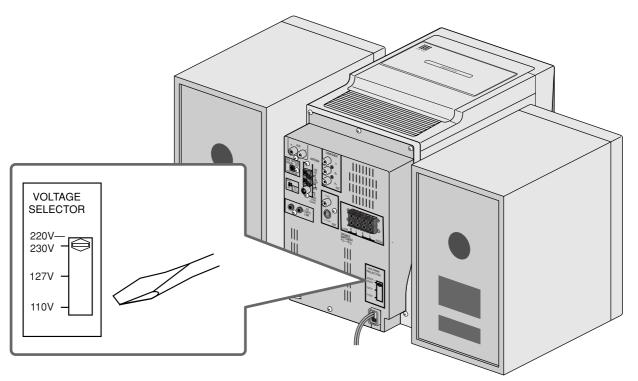
Type:	2-Way Bass-reflex type
Speaker Systems:	Woofer: 10 cm cone x 1
	Tweeter: 4 cm cone x 1
Power handling capacity:	HIGH: 20 W
	LOW: 20 W
Impedance:	HIGH: 4Ω
	LOW: 4Ω
Frequency range:	56 Hz – 40 000 Hz
Sound pressure level:	84 dB/W•m
Dimensions (approx.):	145 mm x 236 mm x 205 mm
	(W/H/D)
Mass (approx.):	2.3 kg each

Design and specifications are subject to change without notice.

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

主(AC)电源线路说明(不适用于香港、欧洲、美国、加拿大、 澳大利亚及英国型号)



#### CAUTION for mains (AC) line

BEFORE PLUGGING IN, do check that your mains (AC) line voltage corresponds with the position of the voltage selector switch provided on the outside of this equipment and, if different, reset the voltage selector switch, to prevent from a damage or risk of fire/electric shock.

#### 有关主(AC)电源线路的重要事项

接插电源以前,请务必检查当地的主(AC)电源线路电压是 否和位于本机外面的电压选择开关设定的位置一致。如果不 一致,请重新设定电压选择开关使其符合当地电压,以免损 坏机器或引起火灾/触电的危险。



# JVC



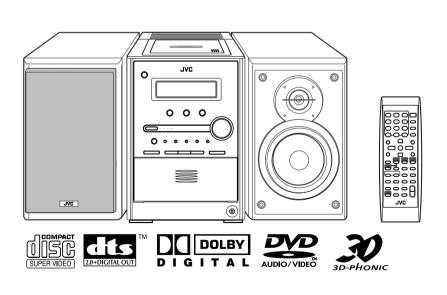
# **MICRO COMPONENT SYSTEM**

SISTEMAS DE MICROCOMPONENTES SISTEMA DE MICRO COMPONENTES

# UX-S77 —Consists of CA-UXS77 and SP-UXS77



Español



# *INSTRUCTIONS MANUAL DE INSTRUCCIONES INSTRUÇÕES*

GVT0131-004A [UW]

# Warnings, Cautions and Others Avisos, precauciones y otras notas Advertências, precauções e outras notas

#### CAUTION-STANDBY/ON O/I button!

Disconnect the mains plug to shut the power off completely (all lamps and indications go off). The STANDBY/ON O/I button in any position does not disconnect the mains line.

- When the unit is on standby, the STANDBY/ON lamp lights in red.
- When the unit is turned on, the STANDBY/ON lamp lights in green.

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.

#### PRECAUCIÓN—Botón STANDBY/ON 0/1 !

Desconecte el enchufe tomacorriente para desconectar la alimentación completamente (se apagan todas las lámparas e indicaciones). Ninguna posición del botón STANDBY/ON ტ/I conseguirá desconectar la red de alimentación eléLctrica.

- Cuando la unidad está en espera, la lámpara STANDBY/ON se enciende en rojo.
- Cuando la unidad esta
  <sup>^</sup>AL encendida, la la
  <sup>^</sup>ALmpara STANDBY/ON se apaga.

La alimentación puede controlarse mediante control remoto.

#### PRECAUCIÓN

Para reducir riesgos de choques eléctricos, incendio, etc.: 1. No extraioa los tornillos, los cubiertas ni la caia.

1. No extraiga los tornillos, los cubiertas ni la caja.

### 2. No exponga este aparato a la lluvia o a la humedad.

#### PRECAUCIÓN

- No obstruya las rendijas o los orificios de ventilación. (Si las rendijas o los orificios de ventilación quedan tapados con un periódico, un trozo de tela, etc., no se podrá disipar el calor).
- No ponga sobre el aparato ninguna llama al descubierto, como velas encendidas.
- Cuando tenga que descartar las pilas, tenga en cuenta los problemas ambientales y observe estrictamente los reglamentos o las leyes locales sobre disposición de las pilas.
- No exponga este aparato a la lluvia, humedad, goteos o salpicaduras. Tampoco ponga recipientes conteniendo líquidos, como floreros, encima del aparato.

#### CUIDADO-botão STANDBY/ON U/I !

Desligue a ficha da tomada da parede para desligar completamente a alimentação (todas asluzes e indicadores apagam-se). O botão STANDBY/ON ტ川, quer esteja premido ou solto, não desliga a alimentacao principal.

- Quando a unidade estiver em standby, a luz STANDBY/ON fica vermelha.
- Quando a unidade estiver ligada, a luz STANDBY/ON apagase.

A alimentacao pode ser controlada a` dista^ncia.

#### PRECAUÇÃO

Para reduzir riscos de choques elétricos, incêndio, etc.: 1. Não remova parafusos e tampas ou desmonte a caixa.

2. Não exponha este aparelho à chuva nem à umidade.

#### PRECAUÇÃO

- Não obstrua as aberturas e orifícios de ventilação. (Se os orifícios ou aberturas de ventilação estiverem obstruídos por qualquer papel ou tecido, não haverá circulação do ar quente.)
- Não coloque nenhum objeto com chamas, como velas acesas, sobre o aparelho.
- Ao descartar as baterias, leve em consideração os problemas que possam ser causados ao meio ambiente e os regulamentos e leis locais e governamentais sobre recolhimento dessas baterias devem ser rigorosamente seguidos.
- Não exponha este aparelho à chuva, umidade, pingos ou esguichos de água, nem coloque em cima do mesmo qualquer tipo de recipiente que contenha líquidos, como por exemplo vasos.

#### **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.

#### PrecauciÓn: Ventilación correcta

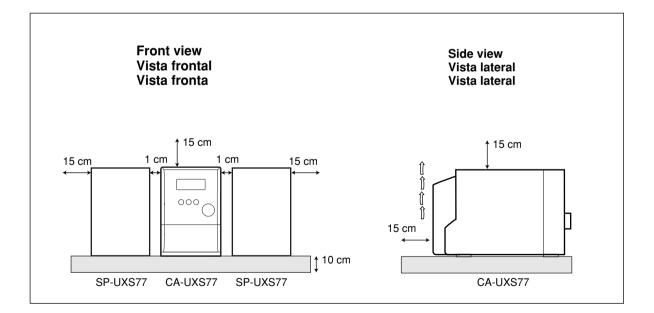
Para evitar el riesgo de descargas eléctricas e incendio y prevenir posibles daños, instale el equipo en un lugar que cumpla los siguientes requisitos:

- 1. Parte frontal: Sin obstrucciones, espacio abierto.
- 2. Lados/parte superior/parte posterior: No debe haber ninguna obstrucción en las áreas mostradas por las dimensiones de la siguiente figura.
- 3. Parte inferior: Sitúe el equipo sobre una superficie nivelada. Mantenga un espacio adecuado para permitir el paso del aire y una correcta ventilación, situando el equipo sobre un soporte de 10 o más cm de allura.

#### PRECAUÇÃO: Ventilação adequada

Para evitar riscos de choques elétricos e incêndios, e prevenir avarias, instale o aparelho como segue:

- 1. Parte frontal: Sem obstruções e espaços abertos.
- 2. Partes laterais/ Tampa/ Posterior: Nenhuma obstrução deverá ser colocada entre as áreas cujas dimensões são indicadas abaixo.
- 3. Parte inferior: Instale-o sobre uma superfície plana. Deverá ser mantido espaço suficiente para a ventilação se este for instalado numa posição que tenha uma altura de 10 cm ou mais.



#### 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 UNIT.

#### IMPORTANTE PARA PRODUCTOS LÁSER

- 1. PRODUCTO LÁSER CLASE 1
- PRECAUCIÓN: No abra la tapa superior. En el interior de la unidad no hay piezas que pueda reparar el usuario; encargue el servicio a personal técnico cualificado.
- PRECAUCIÓN: Radiación láser visible e invisible en caso de apertura o con interbloqueo averiado o defectuoso. Evite la exposición directa a los haces.
- 4. REPRODUCCIÓLN DE LA ETIQUETA: ETIQUETA DE PRECAUCIÓN, COLOCADA EN EL INTERIOR DE LA UNIDAD.

#### PARA PRODUTOS LASER, IMPORTANTE

- 1. PRODUTO LASER DE CLASSE 1
- PRECAUÇÃO: não abrir a cobertura superior. Dentro da unidade não existem partes cuja manutenção tenha de ser feita pelo usuário; deixe qualquer manutenção a cargo do pessoal de serviço qualificado.
- PRECAUCAO: radiação laser visível e invisível quando se abre e com a conexão interna em falha ou frustrada. Evite a exposição direta ao raio.
- 4. REPRODUÇÃO DE ETIQUETA: ETIQUETA DE AVISO SITUADA NO INTERIOR DA UNIDADE.

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

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# 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 mounted on the rear panel to prevent heat buildup inside the unit.



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 cooling fan and 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.

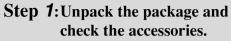
# How to Read This Manual

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

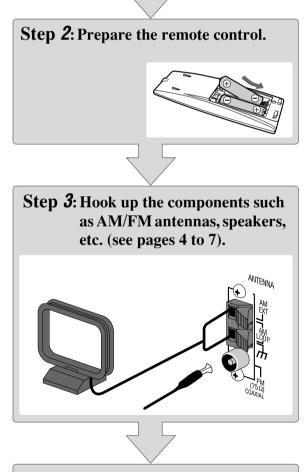
- Button and control operations are explained as listed in the table below. In this manual, the operations using the remote control is mainly explained; however, you can use the buttons and controls on the main unit if they have the same (or similar) name and marks.
- Some related tips and notes are explained later in the sections "Learning More about This System" and "Troubleshooting," but not in the same section explaining the operations. 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.

· · · · · · · · · · · · · · · · · · ·		
R	Indicates that you press the button <b>briefly</b> .	
Ϊ, Ĵ	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>	
	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 ONL Y	Indicates that this operation is only possible using the buttons and controls on the main unit.	

# **Getting Started**







Finally plug the AC power cord. Now you can operate the System.

# Step 7: Unpack

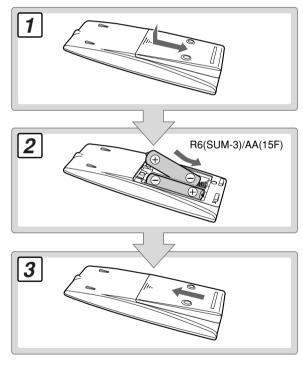
After unpacking, check to be sure that you have all the following items. The number in parentheses indicates the quantity of each piece supplied.

- FM antenna (1)
- AM loop antenna (1)
- Remote control (1)
- Composite video cord (1)
- Batteries (2)
- AC plug adaptor (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 use an old battery together with a new one.
- DO NOT use different types of batteries together.



- 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

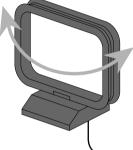
If you need more detailed information, see page 6.

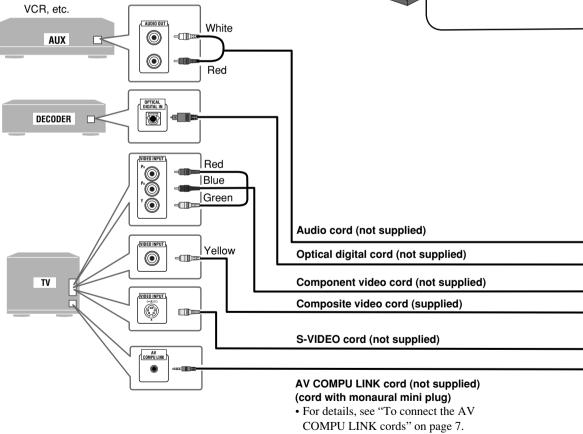
Illustrations of the input/output terminals below are typical examples.

When you connect other components, refer also to their manuals since the terminal names actually printed on the rear may vary.

Turn the power off to all components before connections.

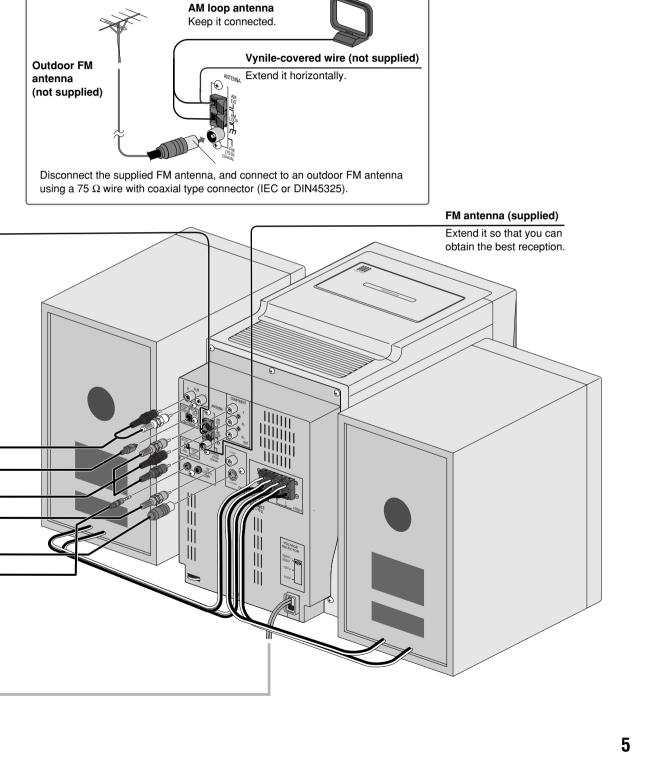
**AM loop antenna (supplied)** Turn it until the best reception is obtained.





# To a wall outletPlug the AC power cord only after all connections are complete.If the wall outlet does not match the AC plug, use the supplied AC plug adaptor.

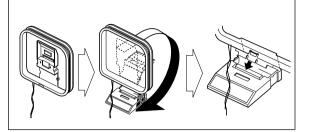
English



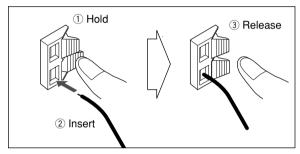
For better FM/AM reception

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

To assemble the AM loop antenna



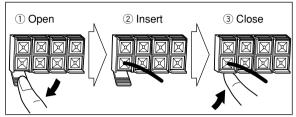
To connect the AM loop antenna



- 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 speaker cords

Connect the right speaker to the RIGHT terminals, and the left speaker to the LEFT terminals.



When connecting the speaker cords, match the polarity of the speaker terminals:

- For LOW terminals: Red cord to (+) and black cord to (-).
- For HIGH terminals: Grey cord to (+) and blue cord to (-)

The speakers are magnetically shielded to avoid color distortions on TVs. However, if not installed properly, it may cause color distortions. So, pay attention to the following when installing the speakers.

-When placing the speakers near a TV set, turn off the TV's main power switch or unplug it before installing the speakers.

Then wait at least 30 minutes before turning on the TV's main power switch again.

Some TVs may still be affected even though you have followed the above. If this happens, move the speakers away from the TV.



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

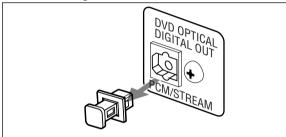
• DO NOT allow the conductor of the speaker cords to be in touch with the metallic parts of the System.

# To connect the AV COMPU LINK cords

This 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 System and the TV by using a cord with monaural mini-plugs (not supplied) in addition to the video input/output connection through the COMPONENT jacks, S-VIDEO jack or VIDEO (composite) jack on the rear.

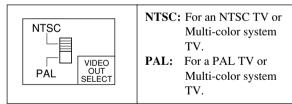
### To connect digital audio



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

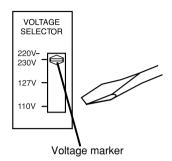
# To set the video output selector

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



### Adjusting the Voltage Selector

Use a screwdriver to slide 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.)

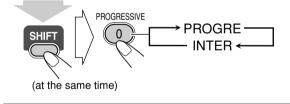




DO NOT plug in before setting the voltage selector on the rear of the unit and all connection procedures are complete.

# Changing the Scanning Mode 🕬 🔊

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 "PROGRE."



PROGRE	Progressive scanning. For a progressive TV.
INTER	Interlaced scanning. For a conventional TV.

# **Before Operating the System**

# Playable Disc Types 🔵 🔵

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

Disc Type	Mark (Logo)	Video Format	Region Code* Number
DVD Video		NTSC or PAL	4 or
DVD Audio			ALL
Video CD (VCD)	DISTALVIDED 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, and JPEG formats.		
DVD-R	The System can play back DVD-R or DVD- RW recorded in the video format.		
DVD-RW			

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 operations.

#### \* 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."

EX.:



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

#### DVD Video-digital audio formats

The System can play back the following digital audio formats.

- 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 a multi-channel encoded DVD, the System properly converts these multi-channel signals into 2 channels, and emits the downmixed sound from the speakers.

• To enjoy the powerful sound of these multi-channel encoded DVDs, connect a proper decoder or an amplifier with a proper built-in decoder to the digital output terminal on the rear.

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

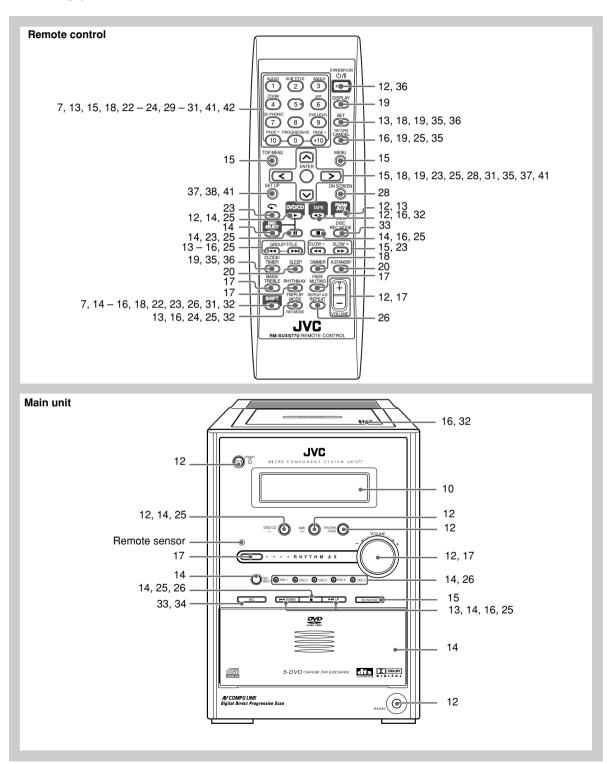
- Turn on the TV and select an appropriate input mode on the TV to view the pictures or on-screen displays on the TV screen.
- For disc playback, you can change the initial setting to your preference. See "Setup Menu Operations" on page 37.

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 "DTS2.0+DIGITAL OUT" are registered trademarks of Digital Theater Systems, Inc.

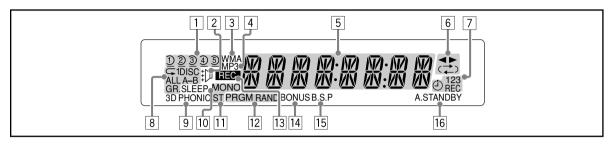
# Parts Index

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



#### Display Indicators

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.



#### 1 Disc tray indicators

- 1-5: Disc tray number indicators.
- ) (tray indicator):
- -Lights when the disc is detected.
- -Flashes while playing back a disc.
- -Goes off when there is no disc in the tray.
- $\bigcirc$  (disc indicator): lights below when the tray indicator indicates the current selected disc.

#### 2 RHYTHM AX indicator

- Lights when RHYTHM AX is activated (see page 17).
- **3** WMA indicator
  - · Lights when the current track is recorded in WMA format.
- 4 MP3 indicator
  - Lights when the current track is recorded in MP3 format.
- 5 Main display
  - · While listening to radio: band (or preset number) and station frequency appear.
  - While selecting tape: "TAPE" appears.
  - While selecting "AUX": "AUX" appears.
  - While plaving a disc: see "Indications on the main display while operating a disc" on page 11.
- 6 Tape operation indicators
  - $\blacktriangleleft$   $\blacktriangleright$  (tape direction):
  - -Lights to indicate the current tape running direction.
  - -Flashes slowly during playback and recording.
  - -Flashes quickly while rewinding a tape.
  - ( )(Reverse mode):
  - $-(\overrightarrow{\phantom{a}})$ : tape play continues endlessly.

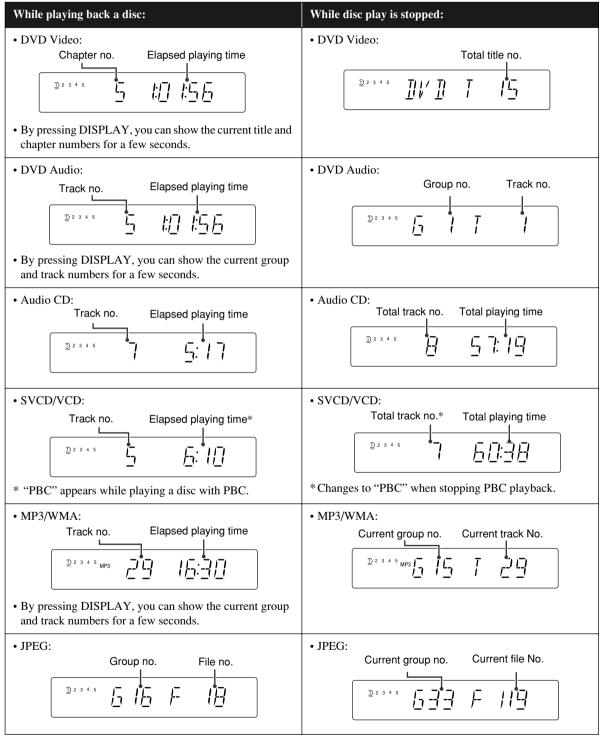
  - + : tape automatically reverses once.
     + : tape play stops at the end of one side.
- 7 Timer indicators
  - (2) : lights when Daily Timer or Recording Timer stands by; flashes while working.
  - 1/2/3: lights up when a Daily Timer (1, 2, or 3) stands by; flashes while setting or working.
  - REC: lights when the Recording Timer stands by; flashes while setting or working.

8 Repeat mode indicators

- 🖵 : lights when Repeat mode is activated.
- 1 DISC ALL A-B GR .:
- -1: lights when One Track Repeat is activated.
- -1DISC: lights when One Disc Repeat is activated.
- -ALL: lights when All Disc Repeat is activated.
- -A-B: lights when A-B Repeat is activated.
- -GR .: lights when Group Repeat is activated.
- 9 3D PHONIC indicator
  - Lights when 3D PHONIC is activated (see page 15).
- 10 SLEEP indicator
  - · Lights when the Sleep Timer is activated.
- 11 FM reception indicators
  - MONO: lights when FM reception mode is monaural.
  - ST (stereo): lights while an FM stereo station with sufficient signal strength is tuned in.
- 12 Disc operation indicators
  - PRGM (program): lights when Program Play mode is activated.
  - RAND (random): lights when Random Play mode is activated
- **13** REC indicators
  - · Lights while recording.
- 14 BONUS indicator
  - · Lights when a DVD Audio with a bonus group is detected (see page 22).
- 15 B.S.P indicator
  - Lights when the current disc is DVD Audio with browsable still picture (see page 23).
- 16 A (auto). STANDBY indicator
  - · Lights when Auto Standby is activated.
  - · Flashes when disc playback stops with Auto Standby activated.

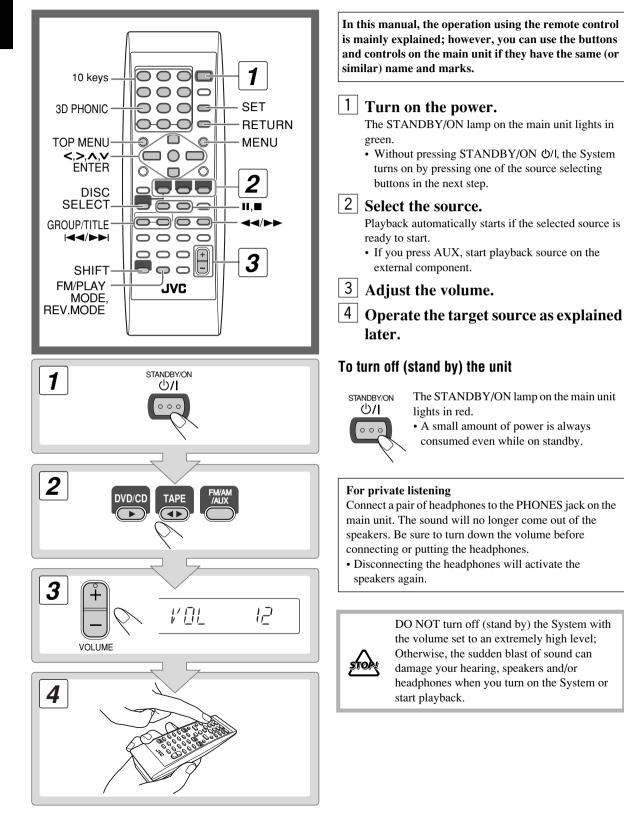
# English

### Indications on the main display while operating a disc



• If Resume is turned "ON" (see page 40), "RESUME" appears when you stop playback (except for Audio CD and MP3/ WMA/JPEG discs).

# Daily Operations—Playback

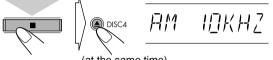


# Listening to the Radio

### To select the AM tuner interval spacing

Some countries space AM stations 9 kHz spacing, and other countries use 10 kHz spacing.

You can change the AM tuner intervals while the System is on stand by and the last selected source is AM.



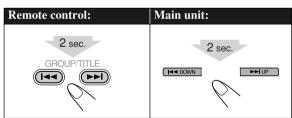
(at the same time)

### To select the band (FM or AM)



# To tune in to a station

While FM or AM is selected ...



Frequency starts changing on the display.

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

- When you repeatedly press the button, the frequency changes step by step.
- To stop searching manually, press either button.

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



The MONO indicator lights on the display. Reception will improve though stereo effect is lost—Monaural reception mode.

111

**To restore the stereo effect,** press the button again (the MONO indicator goes off).

# To preset the stations (Source >>>)



- **1** Tune in to a station you want to preset.
  - You can also store the monaural reception mode for FM preset stations if selected.
- **2** Activate the preset number entry mode.



- Finish the following process while the indication on the display is flashing.
- **3** 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.



**4** Store the station.



# To tune in to a preset station

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



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



• You can also use the ◀◀/►► button to select a preset station.

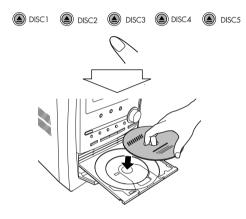
# Playing Back a Disc 🔷 🔵 🔵 🔵 🔵

Before operating a disc, be familiar how a disc is recorded.

- DVD Video comprises of "Titles" which includes "Chapters," DVD Audio/MP3/WMA comprise of "Groups" which include "Tracks," and CD/SVCD/VCD comprise of only "Tracks."
- For JPEG playback, see "Operations on the CONTROL Screen" on page 30.

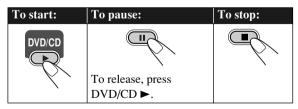
## To insert a disc

You can insert a disc while playing another source.



To close the disc tray, press the same  $\triangle$  again.

- When current selected disc tray open, you use DVD/CD ► button to close disc tray and start playback (depending on how the disc is programmed internally).
- When you press  $\triangleq$  for the next tray you want to place another disc onto, the first disc tray automatically closes and then next tray comes out.



• 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" appears on the display when you stop playback.)

To stop completely while Resume is activated, press ■ twice. (To cancel Resume, see "RESUME" on page 40.)

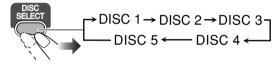
 When operating the System, the on-screen guide icon (see the following table) appears on the TV.
 To deactivate the on-screen guide icons, see "ON SCREEN GUIDE" on page 40.

### On-screen guide icons

- During DVD Video playback, the following icons may appear on the TV screen:
  - At the beginning of a scene containing multiangle views.
  - (D) At the beginning of a scene containing multiaudio sounds.

.... At the beginning of a scene containing multisubtitles.

## To select a disc

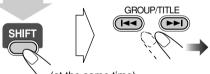


• When current source is not disc, press DVD/CD ► to select the disc player as the source during "PLAY" flashing on the display.

## To select a title/group

While playing ...





(at the same time)

• Group name appears for MP3/WMA discs.

## To select a chapter/track

While playing ...



• First time you press I , you can go back to the beginning of the current chapter/track.

# To locate a particular portion



While playing a disc except MP3/WMA...



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

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



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.

## To play back using the disc menu



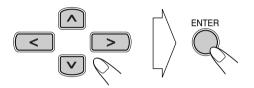
You can operate a disc-DVD and SVCD/VCD with Playback Control (PBC)-using the disc menu shown on the TV screen.

## ■ For DVD Video/DVD Audio:

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



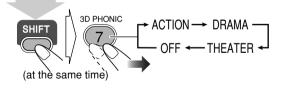
**2** Select an item on the disc menu.



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

## To use 3D Phonic

#### While playing ...



ACTION 3D PHONIC On the TV screen

ACTION	Suitable for action movies and sports programs.
DRAMA	Creates natural and warm sound. Enjoy movies in a relaxed mood.
THEATER	Enjoy sound effects like in a major theater.



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.



**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 a Tape

Insert

## To insert a tape

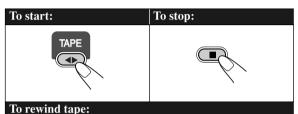
Push

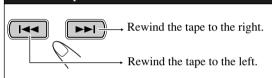
You can play back type I tapes.

Close

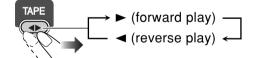


With the tape side facing outside

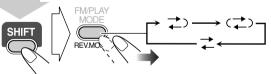




## To change the tape running direction

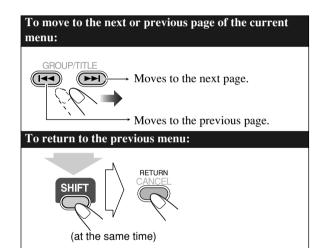


## To reverse the tape automatically



(at the same time)

<b>↓</b>	Tape is played from the forward side to the reverse side. When the reverse side is played back, playback stops.
(ᢏ)	Tape is automatically reversed, and playback repeats until you stop it.
→ ↓	Tape will not be reversed. When the current side of the tape reaches its end, playback stops.



**To cancel PBC** 

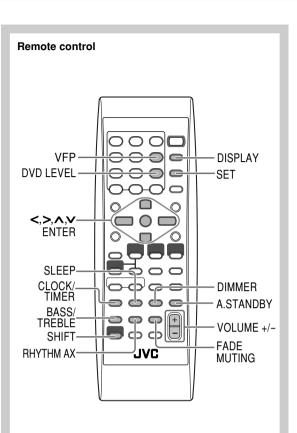




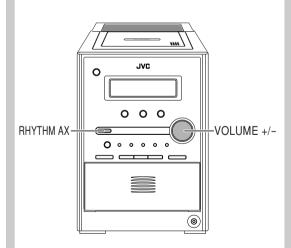
· You can also cancel PBC function by pressing the number button to select a track.

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

# Daily Operations—Sound&Other Adjustments

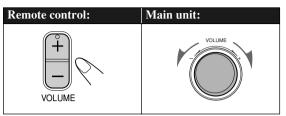


Main unit



## Adjusting the Volume

You can adjust the volume level from level 0 (VOL MIN) to level 50 (VOL MAX).



#### To drop the volume in a moment





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

## Adjusting the Sound

## To emphasize rhythm feeling—RHYTHM AX

This function emphasizes bass attack feeling.

RHYTHM AX →RHYTHMAX → OFF· (Canceled) Ð

## To adjust the tone

You can adjust the bass and treble level from -5 to +5.

To adjust the bass

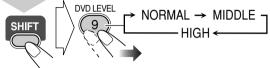


#### To adjust the treble



# Presetting Automatic DVD Sound Increase Level (NLY >>>)

The DVD 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, so you do not have to adjust the volume every time you change the source.



(at the same time)

NORMAL	Original recording level.	
MIDDLE	Output level is increased (less than "HIGH").	
HIGH	Output level is increased (more than "MIDDLE").	

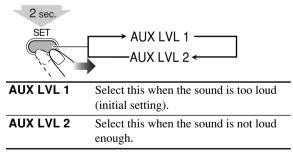
• Once the current DVD is ejected, this setting is canceled and set automatically to "NORMAL."

## Adjusting the Audio Input Level



If the sound from the component connected to the AUX jacks is too loud or is not loud enough when changing from another source to "AUX," you can change the audio input level through the AUX jacks (without changing the volume level).

While the "AUX" is selected as a source...



## Changing the Display Brightness

You can dim the display window.

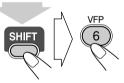
$\bigcup_{(Canceled)}^{\text{DIMMER}} \longrightarrow \text{DIM 1} \longrightarrow \text{DIM 2} \longrightarrow \\ \bigcup_{(Canceled)}^{\text{DIM OFF}} \leftarrow \text{AUTO DIM} \leftarrow $		
DIM 1	Dims the display.	
DIM 2	Erases the display illumination.	
AUTO DIM	<ul><li>Erase the display illumination a few seconds after disc playback starts.</li><li>The display illuminates when playback stops.</li></ul>	

## Changing the Picture Tone (

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

## To select a preset picture tone

**1** Activate VFP.



NORMAL	
GAMMA	0
BRIGHTNESS	0
CONTRAST	0
SATURATION	0
TINT	0
SHARPNESS	0

(at the same time)

On the TV screen

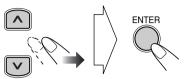
## **2** Select a preset picture tone.



NORMAL	Normally select this.	
CINEMA	Suitable for a movie source.	
USER1/USER2	You can adjust parameters and can store the settings (see page 19).	

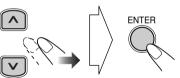
## To adjust the picture tone

- **1** Select "USER1" or "USER2."
- Follow steps **1** and **2** explained on page 18.
- **2** Select a parameter you want to adjust.



GAMMA	Adjust if the neutral color is bright or dark $(-3 \text{ to } +3)$ .
BRIGHTNESS	Adjust if the entire picture is bright or dark $(-8 \text{ to } +8)$ .
CONTRAST	Adjust if the far and near positions are 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 to +8).

#### *3* Adjust the parameter.



4 Repeat steps 2 to 3 to adjust other parameters.

To erase the screen, press VFP again while holding SHIFT.

# 

Without setting the built-in clock, you cannot use Daily Timers (see page 35) and Sleep Timer.

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

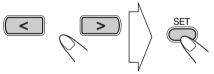
#### **1** Activate the clock setting mode.



- If you have already adjusted the clock before, press the button repeatedly until the clock setting mode is selected.
- **2** Adjust the hour.

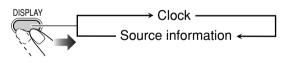


**3** Adjust the minute.



Now the built-in clock starts working.

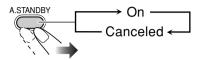
#### To check the current clock time during play



• While playing a DVD and MP3/WMA, you cannot check the current clock time (see page 11).

# Turning Off the Power Image: Complexity and Complex

# To turn off the unit after playback is over—Auto Standby



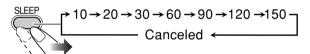
When Auto Standby is in use, the A.STANDBY indicator lights on the display.

When disc or tape play stops, the A.STANDBY indicator starts flashing. If no operation is done for about 3 minutes while the indicator is flashing, the System turns off (stands by) automatically.

• Auto Standby does not work while you are listening to radio (FM/AM) and the external component (AUX).

## To turn off the unit after a certain period of time —Sleep Timer

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



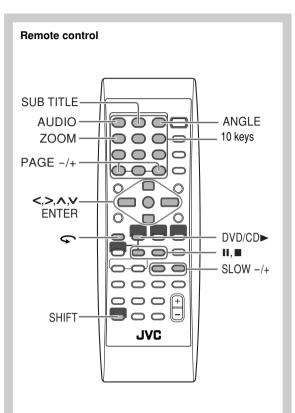
#### **2** Wait until the set time goes off.

To check the time remaining until the shut-off time



• If you press the button repeatedly, you can change the shutoff time.

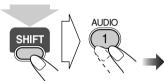
# **Unique DVD/VCD Operations**



## Selecting the Sound Track (Source Source Sou

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.

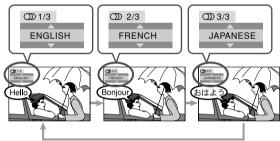
• You can also select the audio track using the on-screen bar (see page 27).



(at the same time)

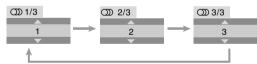
#### While playing a DVD Video...

Ex.:

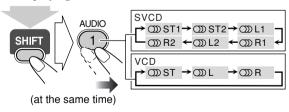


#### While playing a DVD Audio...

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. Karaoke 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 27).

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

#### **1** Display the subtitle selection window.

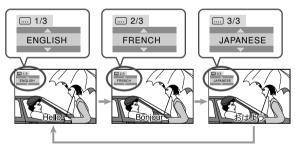


(at the same time)

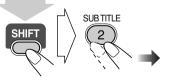
## **2** Select the subtitle language.



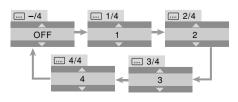




#### While playing an SVCD...



(at the same time)

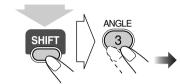


## Selecting the View Angle

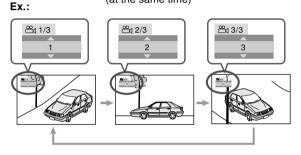
While playing back a chapter (of DVD Video) containing multi-view angles, you can view the same scene from different angles.

• You can also select the multi-view angles using the onscreen bar (see page 27).

While playing...



(at the same time)



## Playing Back a Bonus Group

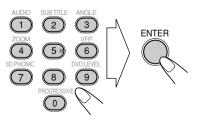
Some DVD Audios have a special group called "bonus group" whose contents are not open to the public.

• 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 14.

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



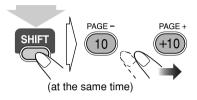
**3** Follow the interactive instructions shown on the TV screen.

To cancel the key number entry, press ■.

## Selecting Browsable Still Pictures 🖉 🔊

While playing back a track (of DVD Audio) linked to browsable still pictures (BSP), 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 (BSP), they are usually shown in turn automatically during playback.
- You can also select the page using the on-screen bar (see page 27).



## Special Effect Playback (

## Still picture playback

To start still picture playback:	To resume normal 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 ►.

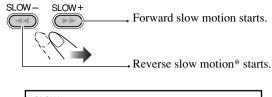
## Slow-motion playback

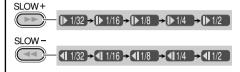
## **1** While playing...



Still picture playback starts.

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





\*Not available for SVCD/VCD.

To resume normal playback, press DVD/CD ►.

## To replay the previous scenes (One touch replay function)

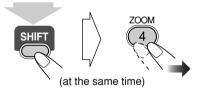
• This function is only used while playing DVD Video.



The playback position moves back 10 seconds before the current position (only within the same title).

## Zoom

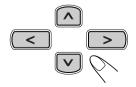
**1** While playing back....





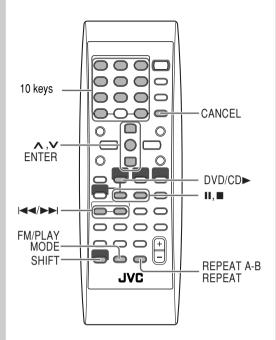
As the number increases, magnification also increases.

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

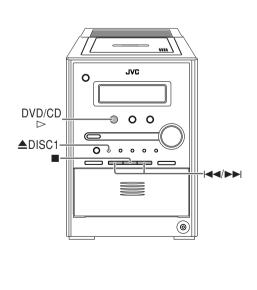


**To resume normal playback,** press ZOOM repeatedly until "ZOOM OFF" appears on the TV screen.

# **Advanced Disc Operations**



#### Main unit



# Programming the Playing Order Program Play

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

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



On the display

No Disc	Group/Title	Track/Chapter	
2			
3			
4			
5			
6			
8			
9			
10			

On the TV screen

# 2 Select chapters or tracks you want for Program Play.For DVD/MP3/WMA:

- ① Select a disc number.
- ② Select a title or group number.
- ③ Select a chapter or track number.

#### • For SVCD/VCD/CD:

- ① Select a disc number.
- ② Select tracks.
  - If the disc is not in current tray, the System may prompt for the group/title number entry as well, however, during playback, the System will ignore these entries.
  - You can use ENTER button to skip the group/title number entry.

To enter the numbers:			
AUDIO SUBTITLE ANGLE 1 2 3 200M 5 6 30 PHONIC 7 8 9 PAGE - 10 7 10 7 10 7 10 7 10 7 10 7 10 7 10	Examples: To enter number 5, press 5. To enter number 15, press +10, then 5. To enter number 30, press +10, +10, then 10.		

**3** Repeat the above step **2**.

## **4** Start playback.

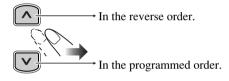


Playback starts in the order you have programmed.

To skip a step:	To pause:	To stop:
	To release, press DVD/CD ►.	

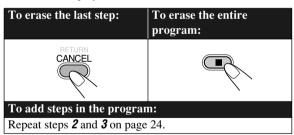
## To check the programmed contents

Before or after playback ...



## 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 chapters or tracks of all loaded discs at random.

• Random Play cannot be used for some DVDs.

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



## **2** Start playback.



Playback starts in random order. Random Play ends when all the tracks are played once (when Repeat Play is not activated).

To skip a chapter/ track:	To pause:	To stop:
To skip to the begin- ning of the current track, press I◄◀ .	To release, press DVD/CD ►.	

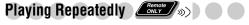
• During Random Play, you cannot select disc by using DISC SELECT button.

## To exit from Random Play

Before or after playback ...







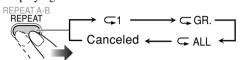
· You can also select the repeat mode using the on-screen bar (see page 28).

#### **Repeat Play**

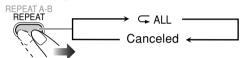
You can repeat playback.

#### • For DVD Video:

While playing ...



Before starting playback ...



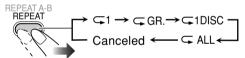
#### • For DVD Audio:

While playing or before playback ...



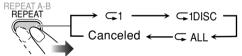
#### • For MP3/WMA:

While playing or before playback ...

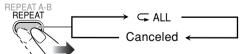


• For CD/SVCD/VCD:

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

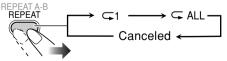


While playing (with PBC for SVCD/VCD) ...



#### • For Program Play:

While playing or before playback ...



• For Random Play:

While playing or before playback ...

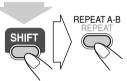


Ģ ALL	Repeats all discs in all tray or all programmed tracks.
<b>⊊</b> 1	Repeats the current chapter/track.
Ģ GR.	Repeats the current title/group.
Ģ 1DISC	Repeats the current disc.
Canceled	Cancels Repeat Play mode.

## A-B Repeat

You can repeat playback of a desired portion by specifying the beginning (point A) and the ending (point B).

- A-B Repeat cannot be used for MP3/WMA and for some DVDs.
- A-B Repeat can be used within the same title while playing a DVD Video, and within the same track for the other discs.
- 1 While playing (without PBC for SVCD/VCD), select the start point (A).



**A**-lights on the display. • 🗠 A- appears on the TV screen if the TV is turned on.

(at the same time)

(at the same time)

- 2 Select the end point (B).
- $\frown$  **A-** changes to  $\frown$  **A-B**. • A-B appears on the



TV screen.

· You can search for the end point using the  $\rightarrow$  button.

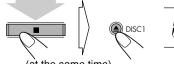
To cancel A-B Repeat, press REPEAT A-B again while holding SHIFT.

# Prohibiting Disc Ejection—Child Lock



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

• This is possible while the System is on standby. While the disc travs are closed...

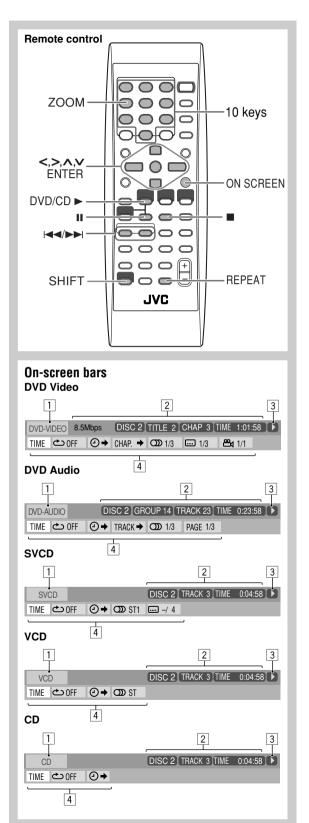




(at the same time)

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

# **On-Screen Disc Operations**



## On-screen Bar Information 🔵 🔵 🔵

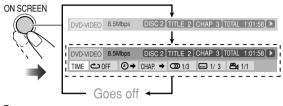
You can check the disc information (except for MP3/WMA/ JPEG disc) and use some functions through the on-screen bar.

1 Disc type	
2 Playback info	
Indication	Meanings
Mbps	Current transfer rate
DISC 2	(Megabits per second) Current disc
TITLE 2	Current title
CHAP 3	Current chapter
GROUP 1	Current group
TRACK 14	Current track
TOTAL 1:25:58	Time indications
<b>3</b> Operation mo	odes
Indication	Meanings
	Playback
	Forward/Reverse search
	Forward/Reverse slow-motion
	Pause
	Stop
4 Function icon	ns (on the pull-down menu)
Indication	Meanings
TIME	Select to change the time indication.
C OFF	Select to repeat playback.
④►	Select for time search.
CHAP. →	Select for chapter search.
TRACK +	Select for track search.
<b>CDD</b> 1/3	Select to change the audio language or channel (see also page 21).
<b></b> 1/3	Select to change subtitle language (see also page 22).
<b>24</b> 1/3	Select to change the view angle (see also page 22).
PAGE 1/5	Select to change the page (see also page 23).

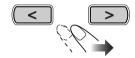
# Operations Using the On-screen Bar

Ex.: Selecting a subtitle (French) for DVD Video: While a disc is selected as the source...

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



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



 DVD-VIDEO
 8.5Mbps
 DISC 2
 TITLE 2
 CHAP 3
 TOTAL
 1:01:58
 ▶

 TIME
 △> OFF
 ④ →
 CHAP. →
 ◯> 1/3
 □□ 1/3
 🗠 1/1

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



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



2 TITLE 2 CHAP 3 TOTAL 1:01:58 ► → CDD 1/3 □ 2/3 2/3 2/4 1/1 FRENCH

## **5** Finish the setting.



Pop-up window goes off.

To erase the on-screen bar



For detailed operations of the following functions, see also "Operations Using the On-screen Bar" on the left.

## Changing the time information

3))

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	DISC 2 TITLE 2	CHAP 3 T	OTAL 1:01:58
TIME 🖒	)FF ⊙→	CHAP. ➡ 🛛 1/3	···· 1/ 3	<b>224</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 26.

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



#### 4 Select the repeat mode you want.

ALL	Repeats all discs or all programmed track.
A-B	Repeats a desired portion (see next column).
TITLE	Repeats the current title.
GROUP	Repeats the current group.
DISC	Repeats the disc (except for DVD).
CHAPTER	Repeats the current chapter.
TRACK*	Repeats the current track.
OFF	Cancels Repeat Play.

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

#### 5 Finish the setting.



### A-B Repeat

• See also page 26.

- 1 While playing, display the on-screen bar with the pulldown menu.
- 2 Select COFF.
- **3** Display the pop-up window.



4 Select "A-B".



5 Select the start point (A).



#### 6 Select the end point (B).



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

 Before pressing ENTER, you can search for the end point using ►►.

## **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	8.5Mbps	DISC 2 TITLE 2 CHAP 3 TOTAL 1:01:58
TIME 🖒	DFF 🕘 →	CHAP. → OD 1/3 . 1/ 3 🕰 1/1
	TIME	_::

#### 4 Enter the time.

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



#### 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).
- To correct a misentry, press cursor < to erase the last entry.
- 5 Finish the setting.



The System starts playing the disc from the selected playing time.

## **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-VIDEO 8.	5Mbps	DISC 2	TITLE 2	CHAP 3	TOTAL 1:0	1:58 🕨
TIME 🗢 OFF	⊘⇒	CHAP. 🕈	<b>CDD</b> 1/3	···· 1/ 3	<b>84</b> 1/1	
		CHAPTE	ER _			

## 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.

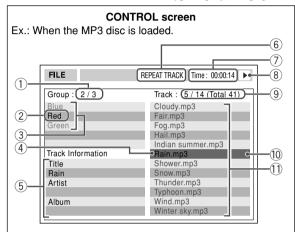


The System starts playing the searched chapter or track.

# Operations on the CONTROL Screen (Bonder >>>>

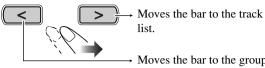
The CONTROL screen automatically appears on the TV screen when you load an MP3, WMA, or JPEG disc. You can search for and play the desired tracks through the CONTROL screen.

• If both types of files (MP3/WMA files and JPEG files) are recorded on a disc, select the file type to play (see page 39).



- ① Current group number/total group number
- ② Current group
- ③ Group list
- ④ Current track (in blue)
- Track information (ID3 Tag Version 1.0: only for MP3/WMA)
- 6 Repeat Play setting
- Elapsed playing time of the current track (only for MP3/WMA)
- (8) Operation mode icon
- ④ Current track number/total number of tracks in the current group (total number of tracks on the loaded disc)
- 10 Highlight (green) bar
- Track list

#### To move the highlight bar between group list and 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:	
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 few seconds, then changes one after another.

- · Once you start playing back a JPEG track, the CONTROL screen goes off.
- To cancel slide-show, and display the current still picture, press ENTER.

To skip a track:	To pause:	To stop playback:
	To release, press DVD/CD ►.	

#### To repeat slide-show for JPEG

While playing or before starting playback ...

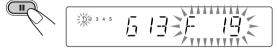


Ģ GR.	Repeats the current group.
⊊ 1DISC	Repeats the current disc.
G ALL	Repeats all disc.

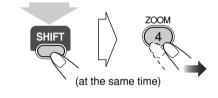
• For Repeat Play of MP3/WMA, see page 26.

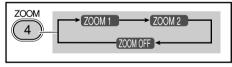
#### To zoom in the still picture

- You cannot zoom in the still picture during slide-show.
- 1 While playing...



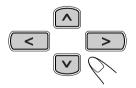
2 Change the magnification.





As the number increases, magnification also increases.

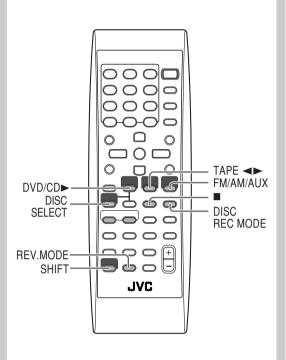
#### 3 Move the zoomed-in position.



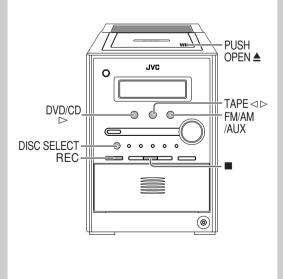
To resume normal playback, press ZOOM repeatedly until "ZOOM OFF" appears on the TV screen.

# **Advanced Tape Operations**

#### Remote control



#### Main unit



### IMPORTANT

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

## Recording on a Tape

You can use type I tapes for recording.

• To play a tape, see page 16.

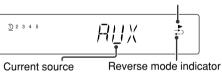
## **1** Insert a recordable cassette.



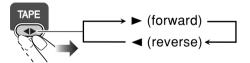
With the tape side facing outside

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

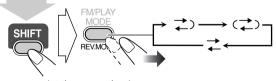
Tape direction indicator



To change the direction



#### To change the Reverse mode if necessary



(at the same time)

 →
 To record on both sides.

 • When using Reverse mode, start

 recording in the forward (►) direction.

 →
 To record on only one side.

- **3** Select and start playing the source—"FM," "AM," "DVD/CD," or "AUX."
  - When recording a disc, you can also use "Synchronized Disc Recording" (see below).

## **4** Start recording.



On the main unit



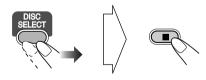
• While recording a disc, recording stops automatically after the disc player plays back the disc.

## 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 32.
- **3** Select the disc number you want to start recording from.



### **4** Select the Recording mode.



	(except for DVD Video/DVD Audio).
1ST TRK	Records the first track of each disc (only

for SVCD/VCD/CD).

# **5** Start recording when the recording mode selected in step **4** is still shown on the display.



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

On the main unit

- If the loaded disc is not compatible for the current recording mode, the disc player skips the disc and loads the next one.
- When either disc play or recording ends, both disc player and the cassette deck stop at the same time.

#### To record a "Live" disc

It will not be desirable to put 4-second blank portions between the tunes recorded on the tape. To record the entire disc without any interruption recorded, pause the disc play (press II on the remote control) before pressing REC.

#### To record Program Play or Random Play

- 1 Select Program Play (and make a program) or Random Play, but do not start playback.
- 2 Press REC to start recording.
- When disc play stops, recording continues. It is required that recording be stopped manually.

## To record only your favorite track

You can specify tracks to be recorded on the tape while listening to a disc.

• This function is not available for DVD Video.

## **1** Start playing a disc.



**2** While a track you want to record on the tape is playing...



On the main unit

The disc player returns to the beginning of that track and the track is recorded on the tape. After recording the track, the disc player and cassette deck automatically stop.

automatic

## **3** Repeat steps **2** and **3** to record other tracks you want.

• You can exchange the discs if necessary.

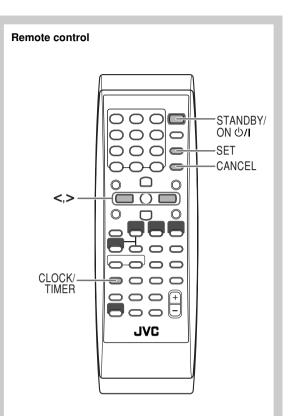
**To protect your recording** Cassettes have two small tabs on the back to protect from unexpected erasure or re-recording. **To protect your recording,** remove these tabs.



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



# **Timer Operations**



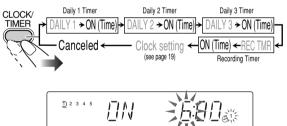
## 

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

- You can store three Daily Timer settings and one Recording Timer setting; however, you can activate only one of Daily Timers or Recording Timer at the same time.
- To exit from the timer setting, press CLOCK/TIMER as required.
- To correct a misentry during the process, press CANCEL. You can return to the previous step.

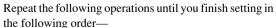
Timer initial settings when shipped from the factory:

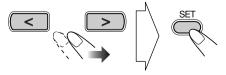
- DAILY 1:ON Time (6:00)/OFF Time (8:00)/ Source (TUNER FM 1)/Volume level (--)
- DAILY 2:ON Time (12:00)/OFF Time (14:00)/ Source (TUNER FM 1)/Volume level (--)
- DAILY 3:ON Time (18:00)/OFF Time (20:00)/ Source (TUNER FM 1)/Volume level (--)
- REC TMR:ON Time (8:00)/OFF Time (10:00)/ Source (TUNER FM 1)
- **1** Select one of the timer setting modes you want to set— Daily 1 ON time, Daily 2 ON time, Daily 3 ON time, or Recording Timer ON time.



Ex. When Daily Timer 1 setting mode is selected

- When the clock has not been adjusted, pressing CLOCK/TIMER makes the System enter the clock setting mode.
- **2** Make the timer setting as you want.





- $\bigcirc$  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," "TAPE," "DISC" or "AUX."



For Recording Timer: Select the playback source—"TUNER FM,""TUNER AM" or "AUX."

(4) For "TUNER FM" and "TUNER AM": Select a preset channel.

For "DISC": Select the disc number, group/title number, then the track/chapter number.

- (5) For Daily Timers: Select the volume level.
  - You can select the volume level ("VOL 1" to "VOL 50" and "VOL --"). If you select "VOL --," the volume is set to the last level when the unit has been turned off.

#### For Recording Timer: The volume level is set automatically to the last level when the unit has been turned off.

Once settings are complete, the Timer setting information appears in sequence.

**3** Turn off the unit (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 ( O ) indicator and timer number indicator (1/2/3) 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) or another timer is activated.

#### When the on-time comes

The System turns on, tunes in to the specified station or start playing the loaded disc with the specified chapter or track, and sets the volume level to the preset level.

• While Daily Timer is working, the timer ( ④ ) indicator and timer number indicator (1/2/3) flash on the display.

#### When the off-time comes

The System stops playback, and turns off (stands by) automatically.

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

## How Recording Timer actually works

When Recording Timer has been set, Timer ( 🕘 ) 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 last level when the unit has been turned off, and starts recording.

#### When the off-time comes

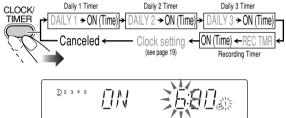
The System stops recording, and turns off (stands by).

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

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

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.

#### Daily 1 Timer Daily 2 Timer



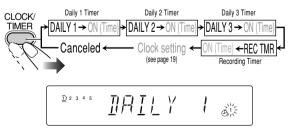
Ex.To cancel Daily Timer 1

#### 2 Turn off the selected Timer.



#### To turn on the Timer

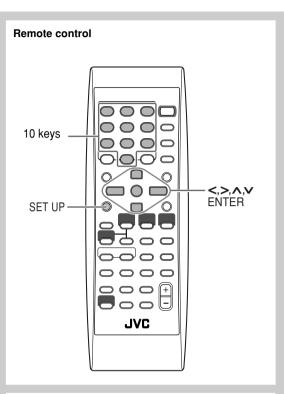
1 Select the Timer (DAILY 1, DAILY 2, DAILY 3, or REC TMR) you want to activate.



Ex.When Daily Timer 1 is selected

#### 2 Activate the selected Timer.





Setup Menu Icons

highlighted.

The icon for the selected Setup Menu will be

 $A \Box O$ 

ENGLISH

ENGLISH

SELECT USE AT TO SELECT. USE ENTER TO CONFIRM

Ex.: LANGUAGE Setup Menu is selected.

LANGUAGE MENU LANGUAGE AUDIO LANGUAGE

> SUBTITLE ON SCREEN LANGUAGE

LANGUAGE Setup Menu
 PICTURE Setup Menu
 AUDIO Setup Menu
 OTHERS Setup Menu

## Operating Procedure

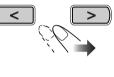
You can use the Setup Menus only when a disc is selected as the source and its playback is not yet started. Ex.: Selecting "STILL PICTURE" for "FILE TYPE":

### **1** Display the Setup Menu.



LANGUAGE		A U O	y
MENU LAI	IGUAGE	ENGLISH	
AUDIO LA	NGUAGE	ENGLISH	
SUBTITLE		ENGLISH	
ON SCREE	N LANGUAGE	ENGLISH	
ENTER SELECT	USE AV I TI TO EXIT, PRES		

## **2** Select one of the Setup Menus.



PICTURE	$A \Box \oslash /$
MONITOR TYPE	4:3 LB
PICTURE SOURCE	AUTO
SCREEN SAVER	ON
FILE TYPE	AUDIO

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





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



MONITOR TYPE	4:3 LB
PICTURE SOURCE	AUTO
SCREEN SAVER	ON
FILE TYPE	AUDIO STILL PICTURE

## **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 erase the Setup Menu



## LANGUAGE Setup Menu

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

LANGUAGE			0 /	
MENU LANG	UAGE	ENGLISH		
AUDIO LANG	GUAGE	ENGLISH		
SUBTITLE		ENGLISH		
ON SCREEN	LANGUAGE	ENGLISH		
	USE ▲▼◀▶ T TO EXIT, PRES		ENTER TO CONFIR	м

#### 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 47).

#### 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 47).

#### SUBTITLE

Some discs have multiple subtitle languages. Select from-ENGLISH, SPANISH, FRENCH, CHINESE, GERMAN, ITALIAN, JAPANESE, AA - ZU (see "Language Code List" on page 47) or "OFF (no subtitle)."

## **ON SCREEN LANGUAGE**

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

## PICTURE Setup Menu

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

PICTURE		A 🗆 👁	17
MONITOR T	YPE	4:3 LB	
PICTURE SO	URCE	AUTO	
SCREEN SAV	/ER	ON	
FILE TYPE		AUDIO	
	USE ▲▼◀▶ TO : TO EXIT, PRESS	SELECT. USE ENTER Set UP].	TO CONFIRM

#### MONITOR TYPE

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 (see "To set the video output selector" on page 7).

#### Select one of the following:

16:9 / 16:9 MULTI (Wide television conversion): Select when the aspect ratio of your TV is 16:9 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 (conventional TV). 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.
<b>VIDEO:</b>	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 picture 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) and still picture (JPEG 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.	

## ■ AUDIO Setup 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.
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 "DVD OPTICAL DIGITAL OUT Signals" on	

• See also "DVD OPTICAL DIGITAL OUT Signals" on page 49.

#### DOWN MIX

When using the digital output on the rear, set this correctly according to the connected component. When playing a multi-channel DVD, the System converts

When playing a multi-channel DVD, the System converts the signals into 2 channels properly.

#### Select one of the following:

DOLBY SUBBOUND:	To connect an amplifier with the Dolby	
SURROUND:         Pro Logic decoder.           STEREO:         To connect a conventional stereo		
5121201	amplifier, receiver, MD player, TV, etc.	

## 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 apply the compression effect to the
	downmixed multi-channel sound.

ON: To always apply the compression effect for all Dolby Digital software. Loud sound will become low and vice versa.

## OTHERS Setup Menu

You can change some other convenient functions.

OTHERS A C
RESUME ON
ON SCREEN GUIDE ON
AV COMPULINK MODE DVD1
PARENTAL LOCK
SELECT ↓ USE ▲▼↓ TO SELECT. USE ENTER TO CONFIRM ENTER ↓ TO EXIT, PRESS [SET UP].

## RESUME

You can activate or deactivate Resume for disc playback (see page 14).

#### 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 14).

• 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 VIDEO-3 Input jack on the TV.
DVD2:	To connect to the VIDEO-1 Input jack on the TV.
DVD3:	To connect to the VIDEO-2 Input jack on the TV.

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.

# 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

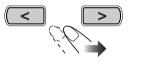
Set the rating level—Level 1 (most restrictive) to Level 8 (least restrictive).

### **1** Display the Setup Menu.



LANGUAGE	_	A 🖵 🔿	1
MENU LAN	GUAGE	ENGLISH	
AUDIO LAN	GUAGE	ENGLISH	
SUBTITLE		ENGLISH	
ON SCREEN	I LANGUAGE	ENGLISH	
ENTER 🖈	USE ▲♥◀▶ TO TO EXIT, PRESS	SELECT. USE ENT (SET UP).	ER TO CONFIR

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



0	THERS			01	
	RESUME		ON		
	ON SCREEN G	UIDE	ON		
	AV COMPULIN	K MODE	DVD1		
	PARENTAL LO	CK )			
	SELECT II	SE AV 41 TO	SELECT USE	ENTER TO CON	FIRM
	ENTER 🛠 T				

## **3** Select "PARENTAL LOCK."



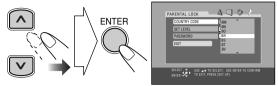
OTHERS			0	<u>×</u>
RESUME		ON	_	
ON SCREEN GUI	DE	ON		
AV COMPULINK	MODE	DVD1		
PARENTAL LOCK	(			
	_	_	_	
ENTER SELECT	E ▲▼ ◀► TO Exit, press	SELECT. US (SET UP).		

## **4** Enter the PARENTAL LOCK submenu.



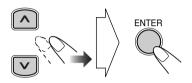
PARENTAL LOCK	
COUNTRY CODE	BR
SET LEVEL	NONE
PASSWORD	
EXIT	
SELECT A INCE AND	> TO SELECT. USE ENTER TO CONFIRM

**5** Select "COUNTRY CODE," then display the pop-up window.

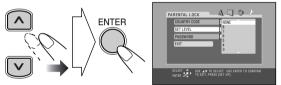


#### *b* Select the country code of your area.

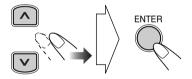
• See "Country/Area Codes List" on page 48 to find your country code.



7 Make sure "SET LEVEL" is selected, then display the pop-up window.

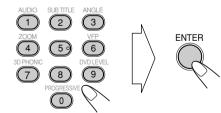


**8** Set the rating level (NONE, 8 - 1).



The System automatically enters "PASSWORD" entry mode.

**9** Make sure "PASSWORD" is selected, then enter any 4-digit number for your password.



**10** Finish the setting.

ENTER



## To change the setting

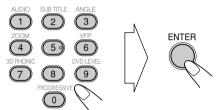
**1** Display the PARENTAL LOCK sub menu.

• 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.

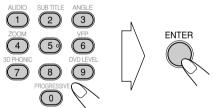


- If you enter a wrong password, "----" appears again.
- If you enter a wrong password three times, "EXIT" is automatically selected. In this case, press ENTER to exit from the PARENTAL LOCK submenu.
  If you forget your password, enter "8888."

## - If you forget your password, o

- **3** Change the settings.
  - Follow steps **5** to **8** of "To set Parental Lock".

## **4** Enter your password again.



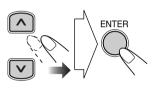
• If you want to change a password, enter a new four digit number in this step.

## 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.

PARENTAL LOCK	
TEMPORARY RELEASE	
NOT RELEASE	
PASSWORD	
SELECT ♀ USE ▲▼ TO SELECT. USE ENTER TO CONFIRM. ENTER ♀	

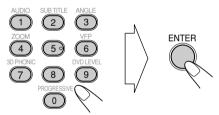
**1** Select "TEMPORARY RELEASE," then press ENTER.



"PASSWORD" is automatically selected.

• If you do not play back such a disc, select "NOT RELEASE," then press 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.

# **Additional Information**

## Learning More about This System 🔵 🔵

## Getting Started (see pages 3 to 7)

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

 To enjoy the progressive video picture, connect a TV with the progressive video input using component video cord.

#### **Before Operating the System** (see pages 8 to 11) 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.

#### **Daily Operations—Playback** (see pages 12 to 16) 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:**

- When using an 8 cm disc, place it on the inner circle of the disc tray.
- 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.
- When discs\* in more than one tray are loaded on the disc trays, they are played in sequence as follows:
  - Ex.: When DISC 2 is selected:
    - DISC 2⇒DISC 3⇒DISC 4⇒DISC 5⇒DISC 1 (then stops)
  - \* When no disc is loaded on the tray, that disc number is skipped.
- You can exchange discs while playing or selecting another disc.
- Some DVD Audio discs prohibit downmixed output. When you play back such a disc, "LR ONLY" appears on the display and the System plays back the left front and right front signals.
- 3D Phonic setting is also applied to the optical digital output signals through the DVD OPTICAL DIGITAL OUT terminal.
- When using Resume on SVCD or VCD with PBC, the playback might start on a position slightly different from where you have stopped.

- You can use Resume only for the DVD/SVCD/VCD except for some discs—depending how the disc is programmed.
- Resume function does not work during Program Play and Random Play.
- For MP3/WMA/JPEG playback...
- This System cannot play "packet write" discs.
- MP3/WMA/JPEG discs are required a longer readout time than regular CDs. (It depends on the complexity of the group/file configuration.)
- Some MP3/WMA/JPEG files cannot be played back and will be skipped. This result from their recording processes and conditions.
- When making MP3/WMA discs, use ISO 9660 Level 1 or Level 2 for the disc format.
- This System can play back MP3/WMA/JPEG files with the extension code <.mp3>, <.wma> or <.jpg> (regardless of the letter case—upper/lower).
- It is recommended that you make each MP3 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.
- This System can recognize the total of 1000 tracks and of 99 groups (each group can contain up to 150 tracks). Those exceeding the maximum number cannot be recognized.

# Daily Operations—Sound&Other Adjustments (see pages 17 to 20)

## Adjusting the Volume:

- Be sure to turn down the volume before connecting or putting the headphones.
- Adjusting the Sound:
- This function also affects the sound through the headphones.

#### 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 21 to 23)

- During slow-motion playback, no sound will be reproduced.
- One touch replay function works only within the same title, though it works between chapters.
- One touch replay function does not work during Program Play and Random Play.
- While zoomed in, the picture may look coarse.

#### Advanced Disc Operations (see pages 24 to 26) Programming the Playing Order—Program Play:

- If you try to program a 100th track, "MEM FULL (memory full)" appears on the display.
- 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).

- You cannot use Program Play and Random Play for JPEG discs.
- You cannot eject tray while in Program Play.
- Playing at Random—Random Play:
- The I button does not work for skipping chapters or tracks, but only work for going back to the beginning of the current chapter or track.

### On-Screen Disc Operations (see pages 27 to 31)

- 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 System may not play back JPEG files properly which are recorded by the devices other than digital still camera.
- If progressive or lossless JPEG files are played back, a black screen appears. In this case, stop playback and select a baseline JPEG file. Note that it may take a long time to select another file.

## Advanced Tape Operations (see pages 32 to 34)

#### **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 end of cassette tapes. Thus, when recording CDs or radio broadcasts, wind the leader tape first to ensure that the recording will be made without any music part lost.
- If you start recording with no cassette inserted, "NO TAPE" appears on the display. If a protected tape has been inserted, "NO REC" appears.
- 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 can also change Reverse mode setting  $( \stackrel{\rightarrow}{\leftarrow} )$  and  $\stackrel{\rightarrow}{\leftarrow} )$  after starting recording.
- You cannot open or close the disc tray while recording a disc.

#### Synchronized Disc Recording:

• When the tape reaches its end in the forward direction (►) during recording with Reverse mode set to →), the last tune will be re-recorded at the beginning of the reverse side (except for DVD Video).

### Timer Operations (see pages 35 and 36)

- 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 start recording.
- 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.

#### **Setup Menu Operations** (see pages 37 to 42) LANGUAGE Setup 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 Setup Menu—MONITOR TYPE:

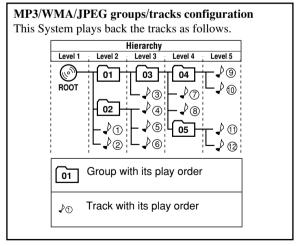
- Even if "4:3 PS" is selected, the screen size may become 4:3 letter box with some DVD Video discs. This depends on how the discs are recorded.
- When you select "16:9" for a picture whose aspect ratio is 4:3, the picture slightly changes due to the process for converting the picture width.

#### AUDIO Setup Menu—DOWN MIX:

• This setting is not effective when DTS multi-channel software is played back.

#### **OTHERS Setup Menu—ON SCREEN GUIDE:**

• Setup Menus 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 and mechanism clean.

#### Handling discs

- When removing the disc from its case, hold 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.
- 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.

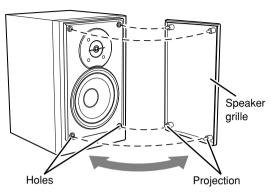
#### Handling cassette tapes

- 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 strongly.
- 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.

#### To remove the speaker grilles



# 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 the 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 scanning.
- ⇒ 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 38).

## **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.

 $\Rightarrow$  The disc is placed upside down. Place the disc with the label side up.

#### ID3 Tag on an MP3/WMA 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/WMA/JPEG 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 or JPEG tracks are not played back.

- ⇒ The inserted disc may includes both type of tracks (MP3/WMA files and JPEG files). In this case, you can only play back the files selected by the "FILE TYPE" setting (see page 39).
- ⇒ You have changed the "FILE TYPE" setting after you inserted a disc. In this case, reload the disc.

#### "NO AUDIO" appears.

⇒ This System cannot play back illegally produced DVD Audio discs.

#### "LR ONLY" appears.

⇒ Some DVD Audio discs prohibit downmixed output. When you play back such a disc, this System plays back the left front and right front signals only.

#### The disc sound is discontinuous.

 $\Rightarrow$  The disc is scratched or dirty.

#### 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 26).

## **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 and Recording Timer do not work.

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

#### Setup Menu Operations:

# 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 (while holding SHIFT) after starting play (see page 22).

# 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 (while holding SHIFT) after starting play (see page 21).

# 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
CO	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 Scots Gaelic
GD GL	Galician
GL	
GU	Guarani
HA	Gujarati Hausa
HI	Hindi
HR	Croatian
HU	Hungarian
HY	Armenian
IA	Interlingua
IA IE	Interlingue
IK	Inupiak
IN	Indonesian
IS	Icelandic
IW	Hebrew
JI	Yiddish
91	1 IGGIDII

JW	Javanese
KA	Georgian
КК	Kazakh
KL	Greenlandic
КМ	Cambodian
KN	Kannada
КО	Korean (KOR)
KS	Kashmiri
KU	Kurdish
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)
МТ	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
TE	Telugu
TG	Tajik
ТН	Thai
TI	Tigrinya
TK	Turkmen
TL	Tagalog
TN	Setswana
то	Tonga
TR	Turkish
TS	Tsonga
TT	Tatar
TW	Twi
UK	Ukrainian
UR	Urdu
UZ	Uzbek
VI	Vietnamese
VO	Volapuk
WO	Wolof
XH	Xhosa
YO	Yoruba
ZU	Zulu

## Country/Area Codes List

#### AD Andorra United Arab Emirates AE Afghanistan AF Antigua and Barbuda AG AI Anguilla Albania AL Armenia AM AN Netherlands Antilles AO Angola Antarctica AQ Argentina AR American Samoa AS 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 B.J Benin BM Bermuda BN Brunei Darussalam Bolivia BO BR Brazil BS Bahamas BT Bhutan BV Bouvet Island BW Botswana Belarus BY BZ Belize CA Canada CC Cocos (Keeling) Islands CF Central African Republic CG Congo CH Switzerland CI Côte d'Ivoire CK Cook Islands CL Chile CM Cameroon CN China CO Colombia CR Costa Rica CU Cuba CV Cape Verde CX Christmas Island CY Cyprus CZ Czech Republic Germany DE DJ Djibouti

DK	Denmark				
DM	Dominica				
DO	Dominican Republic				
DZ	Algeria				
EC	Ecuador				
EE	Estonia				
EG	Egypt				
EH	Western Sahara				
ER	Eritrea				
ES	Spain				
ЕТ	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				
GS	South Georgia and the South				
~ ~	Sandwich				
GT	Guatemala				
GU	Guam				
GW	Guinea-Bissau				
GY	Guyana				
HK	Hong Kong Heard Island and McDonald				
HM	Heard Island and McDonald Islands				
HN	Honduras				
HR	Croatia				
HT HU	Haiti				
ID	Hungary Indonesia				
	Ireland				
IL IL	Israel				
IN	Israel				
IQ	British Indian Ocean Territory				
	Iraq Iran (Islamia Banublia of)				
IS	Iran (Islamic Republic of) Iceland				
	Italy				
JM	Jamaica				
JIVI	Jamaica				

JO	Jordan				
JP	Japan				
KE	Kenya				
KG	Kyrgyzstan				
КН	Cambodia				
KI	Kiribati				
KM	Comoros				
KN	Saint Kitts and Nevis				
KP	Korea, Democratic People's				
	Republic of				
KR	Korea, Republic of				
KW	Kuwait				
KY	Cayman Islands				
KZ	Kazakhstan				
LA	Lao People's Democratic				
	Republic				
LB	Lebanon				
LC	Saint Lucia				
LI	Liechtenstein				
LK	Sri Lanka				
	Liberia				
LS	Lesotho				
LT	Lithuania				
LU	Luxembourg				
LV	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				

NP	Nepal			
NR	Nauru			
NU	Niue			
NZ	New Zealand			
ОМ	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		
TK	Tokelau		
ТМ	Turkmenistan		
TN	Tunisia		
ТО	Tonga		
ТР	East Timor		
TR	Turkey		

TT	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			

## DVD OPTICAL DIGITAL OUT 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 Digital bitstream		48 kHz, 16 bit Linear PCM
with DTS	DTS bitstream	48 kHz, 16 bit Linear PCM	
DVD Audio			
with 48/96/192 kHz,	48 kHz, 16 bit Linear PCM		
16/20/24 bit Linear PCM			
with 44.1/88.2/176.4 kHz, 16/20/24 bit Linear PCM	44.1 kHz, 16 bit Linear PCM		[
with Dolby Digital	Dolby Digi	tal bitstream	48 kHz, 16 bit Linear PCM
with DTS	DTS bitstream	48 kHz, 16 bi	t Linear PCM
SVCD, VCD, CD	44.1 kHz, 16 bit Linear PCM/48 kHz, 16 bit Linear PCM		
CD with DTS	DTS bitstream	44.1 kHz, 16 b	oit Linear PCM
MP3/WMA disc	32/44.1/48 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 DVD OPTICAL DIGITAL OUT terminal if the discs are not copy-protected.



## Specifications

#### Amplifier section

·			
Outpu	it Power:		
	HIGH:	40 W (20 W+ 20 V	W) at 4 $\Omega$ (10% THD)
		50 W (25 W+ 25 V	W) at 4 Ω (10% MAX)
	LOW:	40 W (20 W+ 20 V	W) at 4 $\Omega$ (10% THD)
		50 W (25 W+ 25 V	W) at 4 $\Omega$ (10% MAX)
Analo	og input:		
Α	UX:	Sensitivity/Impe	edance (at 1 kHz)
		400 mV/47 kΩ	(at "AUX LEVEL 1")
		$200 \text{ mV}/47 \text{ k}\Omega$	(at "AUX LEVEL 2")
Digita	al output:		
0		DIGITAL OUT:	
		-21 dBm to -15	dBm (660 nm ±30 nm)
VIDE	O OUT:		
Color	system:N7	SC/PAL selectable	2
V	IDEO (con	nposite):	1 V(p-p)/75 Ω
S	VIDEO: Y	(luminance)	1 V(p-p)/75 Ω
	(	C (chrominance, bu	
			0.286 V(p-p)/75 Ω
С	OMPONE	NT: (Interlace/Prog	ressive):
		(Y)	1 V(p-p)/75 Ω
		(PB/PR)	0.7 V(p-p)/75 Ω
SI	peaker Teri	minals:	$4 \Omega - 16 \Omega$

#### Others:

AV COMPU LINK x 2 (\$ 3.5)

#### **Tuner section**

 FM tuning range:
 87.5 MHz - 108.0 MHz

 AM tuning range:
 531 kHz - 1 710 kHz (at 9 kHz)

 530 kHz - 1 710 kHz (at 10 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 format) DVD-R/DVD-RW (recorded in video format) Dynamic range: 90 dB Horizontal resolution: 500 lines Wow and flutter: Immeasurable MP3 recording format: MPEG 1/2 Audio Layer 3 Max. Bit rate: 320 kbps

#### **Cassette deck section**

Frequency response Normal (type I): 50 Hz – 14 000 Hz Wow and flutter: 0.15% (WRMS)

#### General

#### **Supplied Accessories**

See page 3.

#### **Speakers**

Type:	2-Way Bass-reflex type
Speaker Systems:	Woofer: 10 cm cone x 1
	Tweeter: 4 cm cone x 1
Power handling capacity:	HIGH: 20 W
	LOW: 20 W
Impedance:	HIGH: 4Ω
	LOW: 4Ω
Frequency range:	56 Hz – 40 000 Hz
Sound pressure level:	84 dB/W•m
Dimensions (approx.):	145 mm x 236 mm x 205 mm
	(W/H/D)
Mass (approx.):	2.3 kg each

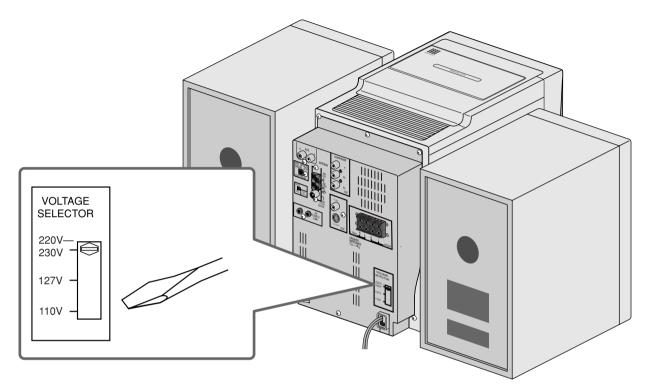
Design and specifications are subject to change without notice.

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

Instrucción sobre la línea de la red (CA) (no aplicable para Europa, EE.UU., Canadá, Australia, ni el Grã-Bretanha)

Instrução sobre a tensão da rede eléctrica (CA) (não aplicável para a Europa, os E.U.A., o Canadá, a Austrália e o Reino Unido)



#### CAUTION for mains (AC) line

BEFORE PLUGGING IN, do check that your mains (AC) line voltage corresponds with the position of the voltage selector switch provided on the outside of this equipment and, if different, reset the voltage selector switch, to prevent from a damage or risk of fire/ electric shock.

#### IMPORTANTE para la línea de la red (CA)

ANTES DE ENCHUFAR EL EQUIPO, compruebe si la tensión de la línea de la red (CA) corresponde con la posición del selector de tensión situado en la parte exterior del equipo, y si es diferente, reajuste el selector de tensión para evitar el riesgo de incendios/ descargas eléctricas.

#### IMPORTANTE para a ligação à tensão da rede (CA)

ANTES DE LIGAR O APARELHO A UMA TOMADA DA REDE, verifique se a tensão da rede CA corresponde à posição do seletor de voltagem localizado na parte externa deste equipamento. Caso não corresponda, reajuste o seletor de voltagem a fim de evitar avarias ou riscos de incêndio e choque elétrico.

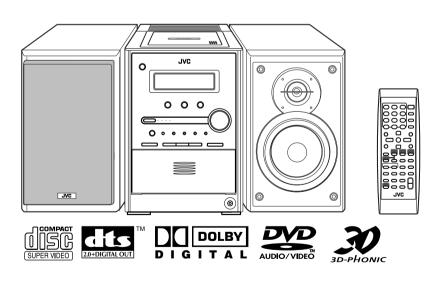






## **MICRO COMPONENT SYSTEM**

# UX-S77 —Consists of CA-UXS77 and SP-UXS77



INSTRUCTIONS

GVT0131-003A [UJ]

## Warnings, Cautions and Others

#### CAUTION-STANDBY/ON O/I button!

Disconnect the mains plug to shut the power off completely (all lamps and indications go off). The STANDBY/ON 心/I button in any position does not disconnect the mains line.

- When the unit is on standby, the STANDBY/ON lamp lights in red.
- When the unit is turned on, the STANDBY/ON lamp lights in green.

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.

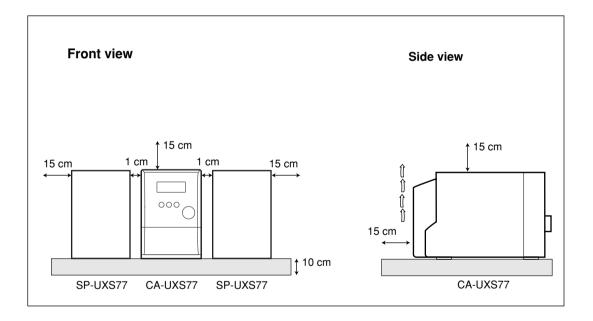
#### CAUTION

- · 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 UNIT.

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

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## 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 mounted on the rear panel to prevent heat buildup inside the unit.



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 cooling fan and 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.

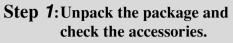
### How to Read This Manual

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

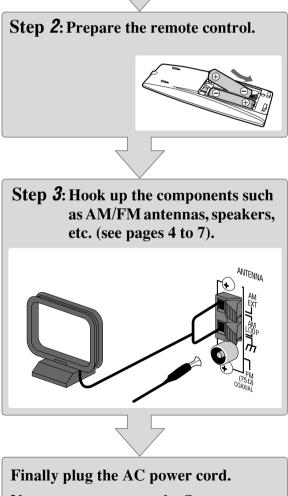
- Button and control operations are explained as listed in the table below. In this manual, the operations using the remote control is mainly explained; however, you can use the buttons and controls on the main unit if they have the same (or similar) name and marks.
- Some related tips and notes are explained later in the sections "Learning More about This System" and "Troubleshooting," but not in the same section explaining the operations. 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.

· · · · · · · · · · · · · · · · · · ·		
R	Indicates that you press the button <b>briefly</b> .	
, ŗ́	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>	
	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 ONL Y	Indicates that this operation is only possible using the buttons and controls on the main unit.	

## **Getting Started**







Now you can operate the System.

## Step 7: Unpack

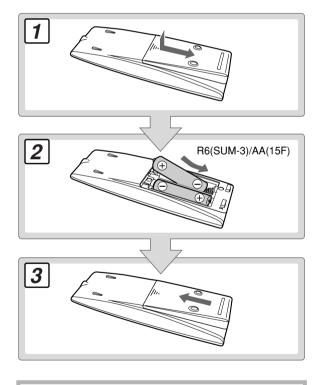
After unpacking, check to be sure that you have all the following items. The number in parentheses indicates the quantity of each piece supplied.

- FM antenna (1)
- AM loop antenna (1)
- Remote control (1)
- Composite video cord (1)
- Batteries (2)
- AC plug adaptor (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 use an old battery together with a new one.
- DO NOT use different types of batteries together.



- 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.

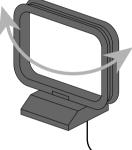
## Step 3: Hook Up

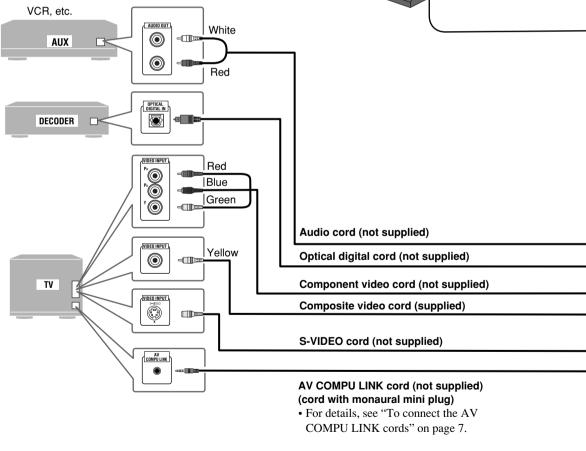
If you need more detailed information, see pages 6 and 7.

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.

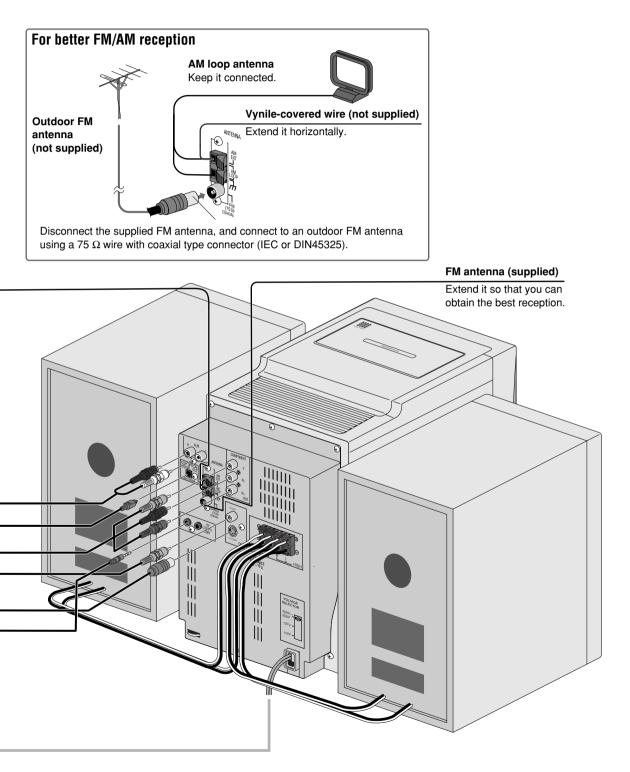
Turn the power off to all components before connections.

**AM loop antenna (supplied)** Turn it until the best reception is obtained.



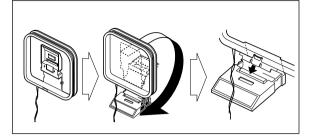


## To a wall outletPlug the AC power cord only after all connections are complete.If the wall outlet does not match the AC plug, use the supplied AC plug adaptor.

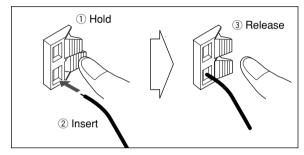


#### To assemble and connect the AM loop antenna

To assemble the AM loop antenna



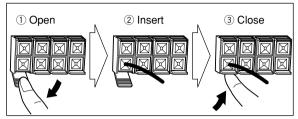
To connect the AM loop antenna



- 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 speaker cords

Connect the right speaker to the RIGHT terminals, and the left speaker to the LEFT terminals.



When connecting the speaker cords, match the polarity of the speaker terminals:

- For LOW terminals: Red cord to (+) and black cord to (-).
- For HIGH terminals: Grey cord to (+) and blue cord to (-)

The speakers are magnetically shielded to avoid color distortions on TVs. However, if not installed properly, it may cause color distortions. So, pay attention to the following when installing the speakers.

-When placing the speakers near a TV set, turn off the TV's main power switch or unplug it before installing the speakers.

Then wait at least 30 minutes before turning on the TV's main power switch again.

Some TVs may still be affected even though you have followed the above. If this happens, move the speakers away from the TV.



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

• DO NOT allow the conductor of the speaker cords to be in touch with the metallic parts of the System.

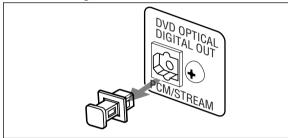


### To connect the AV COMPU LINK cords

This 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 System and the TV by using a cord with monaural mini-plugs (not supplied) in addition to the video input/output connection through the COMPONENT jacks, S-VIDEO jack or VIDEO (composite) jack on the rear.

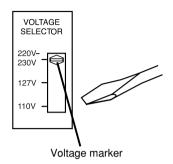
#### To connect digital audio



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

#### Adjusting the Voltage Selector

Use a screwdriver to slide 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.)

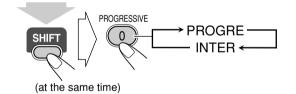




DO NOT plug in before setting the voltage selector on the rear of the unit and all connection procedures are complete.

#### Changing the Scanning Mode

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 "PROGRE."



PROGRE	Progressive scanning. For a progressive TV.
INTER	Interlaced scanning. For a conventional TV.

## **Before Operating the System**

### Playable Disc Types

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

Disc Type	Mark (Logo)	Video Format	Region Code* Number
DVD Video			1 or
DVD Audio			ALL
Video CD (VCD)	OISC Video CD	NTSC	
Super Video CD (SVCD)			
Audio CD			
CD-R	The System can play back	CD-R or C	D-RW
CD-RW	recorded in the Audio CD, MP3, WMA, and JPEG fo		, SVCD,
DVD-R	The System can play back	DVD-R or	DVD-
DVD-RW	RW recorded in the 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 operations.

#### \* 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 color system whose Region Code numbers including "1." EX.:



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

#### DVD Video—digital audio formats

The System can play back the following digital audio formats.

- 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 a multi-channel encoded DVD, the System properly converts these multi-channel signals into 2 channels, and emits the downmixed sound from the speakers.

• To enjoy the powerful sound of these multi-channel encoded DVDs, connect a proper decoder or an amplifier with a proper built-in decoder to the digital output terminal on the rear.

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

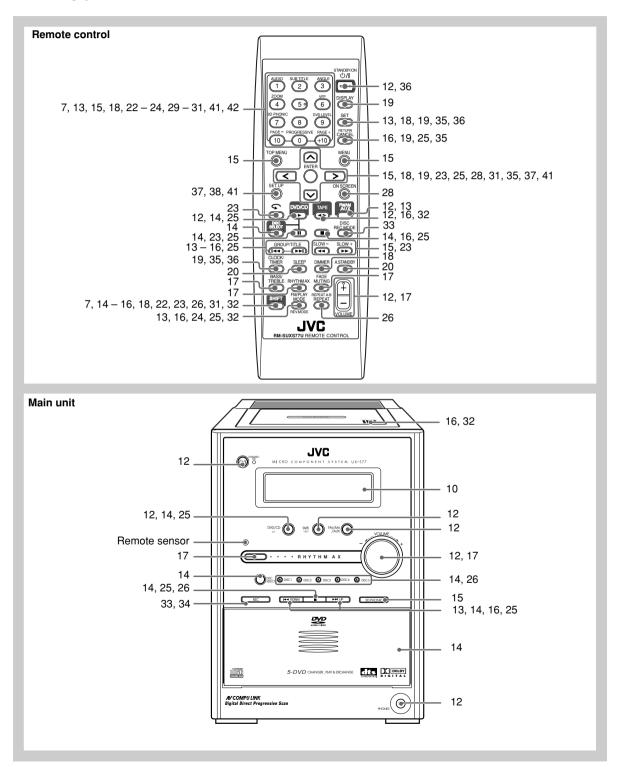
- Turn on the TV and select an appropriate input mode on the TV to view the pictures or on-screen displays on the TV screen.
- For disc playback, you can change the initial setting to your preference. See "Setup Menu Operations" on page 37.

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 "DTS2.0+DIGITAL OUT" are registered trademarks of Digital Theater Systems, Inc.

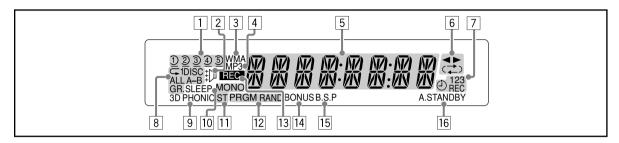
## Parts Index

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



### Display Indicators

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.



#### 1 Disc tray indicators

- 1-5: Disc tray number indicators.
- ) (tray indicator):
- -Lights when the disc is detected.
- -Flashes while playing back a disc.
- -Goes off when there is no disc in the tray.
- $\bigcirc$  (disc indicator): lights below when the tray indicator indicates the current selected disc.

#### 2 RHYTHM AX indicator

- Lights when RHYTHM AX is activated (see page 17).
- 3 WMA indicator
  - · Lights when the current track is recorded in WMA format.
- 4 MP3 indicator
  - Lights when the current track is recorded in MP3 format.
- 5 Main display
  - · While listening to radio: band (or preset number) and station frequency appear.
  - While selecting tape: "TAPE" appears.
  - While selecting "AUX": "AUX" appears.
  - While plaving a disc: see "Indications on the main display while operating a disc" on page 11.
- 6 Tape operation indicators
  - $\blacktriangleleft$   $\blacktriangleright$  (tape direction):
    - -Lights to indicate the current tape running direction.
  - -Flashes slowly during playback and recording.
  - -Flashes quickly while rewinding a tape.
  - ( )(Reverse mode):
    - $-(\overrightarrow{\phantom{a}})$ : tape play continues endlessly.

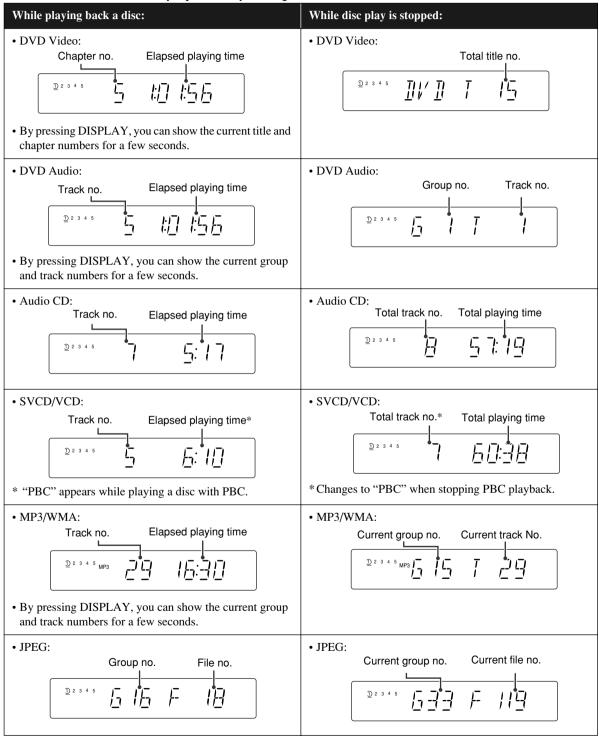
    - + : tape automatically reverses once.
       + : tape play stops at the end of one side.
- 7 Timer indicators
  - (2) : lights when Daily Timer or Recording Timer stands by; flashes while working.
  - 1/2/3: lights up when a Daily Timer (1, 2, or 3) stands by; flashes while setting or working.
  - REC: lights when the Recording Timer stands by; flashes while setting or working.

8 Repeat mode indicators

- 🖵 : lights when Repeat mode is activated.
- 1 DISC ALL A-B GR .:
- -1: lights when One Track Repeat is activated.
- -1DISC: lights when One Disc Repeat is activated.
- -ALL: lights when All Disc Repeat is activated.
- -A-B: lights when A-B Repeat is activated.
- -GR .: lights when Group Repeat is activated.
- 9 3D PHONIC indicator
  - Lights when 3D PHONIC is activated (see page 15).
- 10 SLEEP indicator
  - · Lights when the Sleep Timer is activated.
- 11 FM reception indicators
  - MONO: lights when FM reception mode is monaural.
  - ST (stereo): lights while an FM stereo station with sufficient signal strength is tuned in.
- 12 Disc operation indicators
  - PRGM (program): lights when Program Play mode is activated.
  - RAND (random): lights when Random Play mode is activated
- **13** REC indicators
  - · Lights while recording.
- 14 BONUS indicator
  - · Lights when a DVD Audio with a bonus group is detected (see page 22).
- 15 B.S.P indicator
  - Lights when the current disc is DVD Audio with browsable still picture (see page 23).
- 16 A (auto). STANDBY indicator
  - · Lights when Auto Standby is activated.
  - · Flashes when disc playback stops with Auto Standby activated.

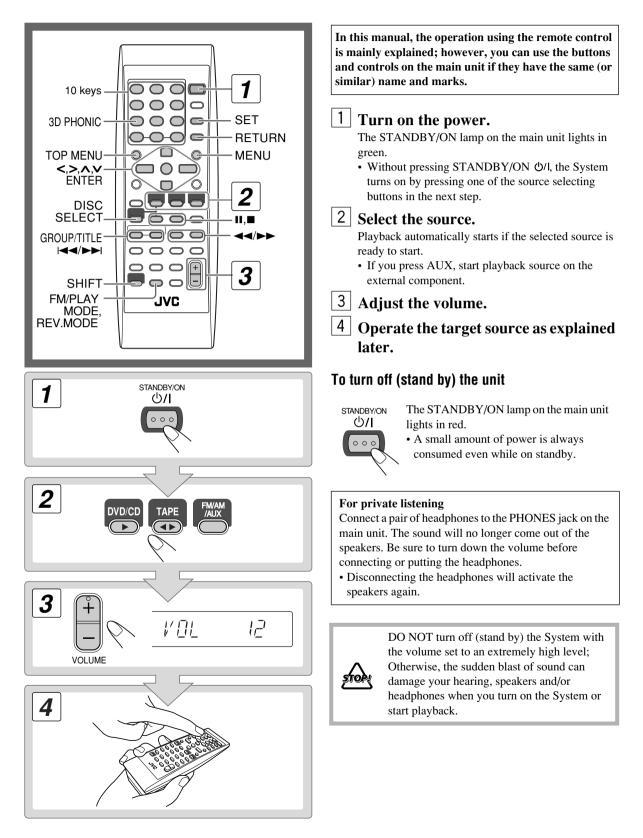


#### Indications on the main display while operating a disc



• If Resume is turned "ON" (see page 40), "RESUME" appears when you stop playback (except for Audio CD and MP3/ WMA/JPEG discs).

## Daily Operations—Playback

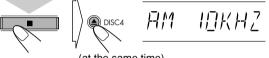


## Listening to the Radio

#### To select the AM tuner interval spacing

Some countries space AM stations 9 kHz spacing, and other countries use 10 kHz spacing.

You can change the AM tuner intervals while the System is on stand by and the last selected source is AM.



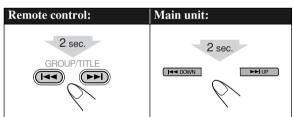
(at the same time)

#### To select the band (FM or AM)



#### To tune in to a station

While FM or AM is selected ...



Frequency starts changing on the display.

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

- When you repeatedly press the button, the frequency changes step by step.
- To stop searching manually, press either button.

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



The MONO indicator lights on the display. Reception will improve though stereo effect is lost-Monaural reception mode.

111

To restore the stereo effect, press the button again (the MONO indicator goes off).

### To preset the stations (Source >>>)



You can preset 30 FM and 15 AM stations.

- **1** Tune in to a station you want to preset.
  - · You can also store the monaural reception mode for FM preset stations if selected.
- **2** Activate the preset number entry mode.



- · Finish the following process while the indication on the display is flashing.
- **3** 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.



**4** Store the station.



#### To tune in to a preset station

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



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



• You can also use the  $\triangleleft \triangleleft \rightarrow \rightarrow$  button to select a preset station.

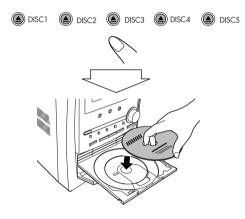
## Playing Back a Disc 🔷 🔴 🔴 🔴 🔴

Before operating a disc, be familiar how a disc is recorded.

- DVD Video comprises of "Titles" which includes "Chapters," DVD Audio/MP3/WMA comprise of "Groups" which include "Tracks," and CD/SVCD/VCD comprise of only "Tracks."
- For JPEG playback, see "Operations on the CONTROL Screen" on page 30.

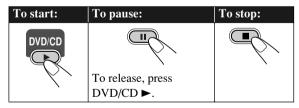
#### To insert a disc

You can insert a disc while playing another source.



To close the disc tray, press the same  $\triangle$  again.

- When current selected disc tray open, you use DVD/CD ► button to close disc tray and start playback (depending on how the disc is programmed internally).
- When you press  $\triangleq$  for the next tray you want to place another disc onto, the first disc tray automatically closes and then next tray comes out.



• 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" appears on the display when you stop playback.)

To stop completely while Resume is activated, press ■ twice. (To cancel Resume, see "RESUME" on page 40.)

 When operating the System, the on-screen guide icon (see the following table) appears on the TV.
 To deactivate the on-screen guide icons, see "ON SCREEN GUIDE" on page 40.

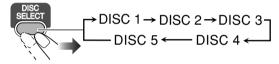
#### On-screen guide icons

- During DVD Video playback, the following icons may appear on the TV screen:
  - At the beginning of a scene containing multiangle views.
  - (D) At the beginning of a scene containing multiaudio sounds.

.... At the beginning of a scene containing multisubtitles.

The following icons will be also shown on the TV screen to indicate your current operation.
(1), (1), (2), (4), (1), (1)

#### To select a disc

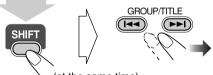


• When current source is not disc, press DVD/CD ► to select the disc player as the source during "PLAY" flashing on the display.

#### To select a title/group

While playing ...





(at the same time)

• Group name appears for MP3/WMA discs.

#### To select a chapter/track

While playing ...



• First time you press I , you can go back to the beginning of the current chapter/track.

## To locate a particular portion



While playing a disc except MP3/WMA...



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

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



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.

#### To play back using the disc menu



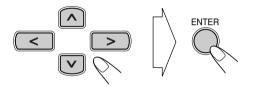
You can operate a disc-DVD and SVCD/VCD with Playback Control (PBC)-using the disc menu shown on the TV screen.

#### ■ For DVD Video/DVD Audio:

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



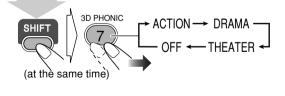
**2** Select an item on the disc menu.



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

#### To use 3D Phonic

#### While playing ...



ACTION 3D PHONIC On the TV screen

ACTION	Suitable for action movies and sports programs.
DRAMA	Creates natural and warm sound. Enjoy movies in a relaxed mood.
THEATER	Enjoy sound effects like in a major theater.





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.



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 a Tape

Insert

#### To insert a tape

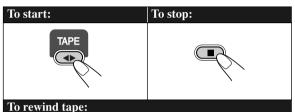
Push

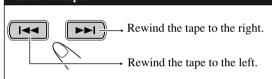
You can play back type I tapes.

Close

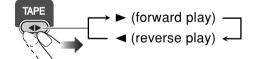


With the tape side facing outside

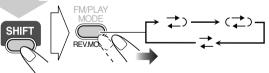




#### To change the tape running direction

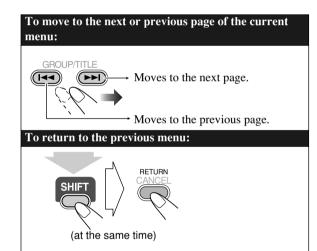


#### To reverse the tape automatically

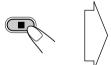


(at the same time)

<b>~</b> )	Tape is played from the forward side to the reverse side. When the reverse side is played back, playback stops.
(ᢏ)	Tape is automatically reversed, and playback repeats until you stop it.
→ ←	Tape will not be reversed. When the current side of the tape reaches its end, playback stops.



To cancel PBC

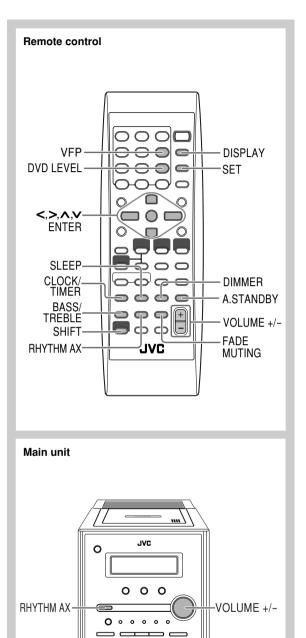




• You can also cancel PBC function by pressing the number button to select a track.

To reactivate PBC, press ■, then press I◄◄.

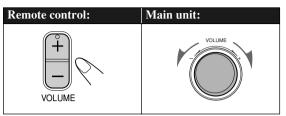
## Daily Operations—Sound&Other Adjustments



0

## Adjusting the Volume

You can adjust the volume level from level 0 (VOL MIN) to level 50 (VOL MAX).



#### To drop the volume in a moment



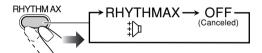


To restore the volume, press again, or adjust the volume level.

### Adjusting the Sound

#### To emphasize rhythm feeling—RHYTHM AX

This function emphasizes bass attack feeling.



#### To adjust the tone

You can adjust the bass and treble level from -5 to +5.

To adjust the bass



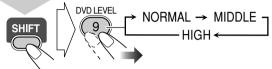
#### To adjust the treble



### Presetting Automatic DVD Sound Increase

Level Remote (NLY >>>) The DVD 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, so you do not have to adjust the volume every time you change the source.



(at the same time)

NORMAL	Original recording level.
MIDDLE	Output level is increased (less than "HIGH").
HIGH	Output level is increased (more than "MIDDLE").

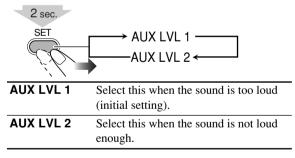
• Once the current DVD is ejected, this setting is canceled and set automatically to "NORMAL."

### Adjusting the Audio Input Level



If the sound from the component connected to the AUX jacks is too loud or is not loud enough when changing from another source to "AUX," you can change the audio input level through the AUX jacks (without changing the volume level).

While the "AUX" is selected as a source...



### Changing the Display Brightness

You can dim the display window.

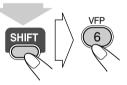
DIMMER	$ \xrightarrow{\text{DIM 1}} \text{DIM 2} \xrightarrow{\text{DIM 0FF}} \text{OIM OFF} \leftarrow \text{AUTO DIM} \leftarrow \text{OIM} \leftarrow \text$
DIM 1	Dims the display.
DIM 2	Erases the display illumination.
AUTO DIM	<ul><li>Erase the display illumination a few seconds after disc playback starts.</li><li>The display illuminates when playback stops.</li></ul>

### Changing the Picture Tone (

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

#### To select a preset picture tone

**1** Activate VFP.



NORMAL	
GAMMA	0
BRIGHTNESS	0
CONTRAST	0
SATURATION	0
TINT	0
SHARPNESS	0

(at the same time)

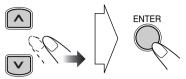
#### **2** Select a preset picture tone.



NORMAL	Normally select this.		
CINEMA	Suitable for a movie source.		
USER1/USER2	You can adjust parameters and can store the settings (see page 19).		

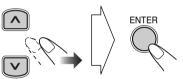
#### To adjust the picture tone

- **1** Select "USER1" or "USER2."
- Follow steps **1** and **2** explained on page 18.
- **2** Select a parameter you want to adjust.



GAMMA	Adjust if the neutral color is bright or dark $(-3 \text{ to } +3)$ .	
BRIGHTNESS	Adjust if the entire picture is bright or dark $(-8 \text{ to } +8)$ .	
CONTRAST	Adjust if the far and near positions are 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 to +8).	

#### *3* Adjust the parameter.



#### 4 Repeat steps 2 to 3 to adjust other parameters.

To erase the screen, press VFP again while holding SHIFT.

## 

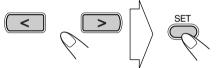
Without setting the built-in clock, you cannot use Daily Timers (see page 35) and Sleep Timer.

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

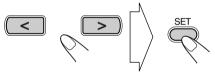
#### **1** Activate the clock setting mode.



- If you have already adjusted the clock before, press the button repeatedly until the clock setting mode is selected.
- **2** Adjust the hour.

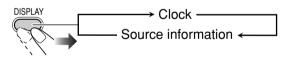


**3** Adjust the minute.



Now the built-in clock starts working.

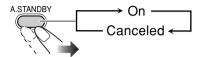
#### To check the current clock time during play



• While playing a DVD and MP3/WMA, you cannot check the current clock time (see page 11).

# Turning Off the Power Automatically

## To turn off the unit after playback is over—Auto Standby



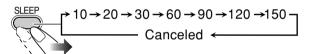
When Auto Standby is in use, the A.STANDBY indicator lights on the display.

When disc or tape play stops, the A.STANDBY indicator starts flashing. If no operation is done for about 3 minutes while the indicator is flashing, the System turns off (stands by) automatically.

• Auto Standby does not work while you are listening to radio (FM/AM) and the external component (AUX).

#### To turn off the unit after a certain period of time —Sleep Timer

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



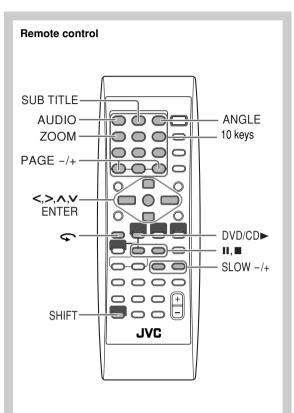
#### **2** Wait until the set time goes off.

To check the time remaining until the shut-off time



• If you press the button repeatedly, you can change the shutoff time.

## **Unique DVD/VCD Operations**



#### Selecting the Sound Track (Street Source Sou



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.

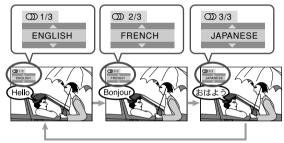
• You can also select the audio track using the on-screen bar (see page 27).



(at the same time)

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



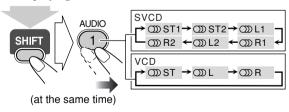


#### While playing a DVD Audio...

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. Karaoke SVCD usually uses these 4 channels to record two 2-channel recordings (ST1/ST2).

## Selecting the Subtitle Language 🔊

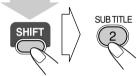
**For DVD Video:** While playing back a chapter containing subtitles in different languages, you can select the subtitle language to display on the TV screen.

**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 27).

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

**1** Display the subtitle selection window.

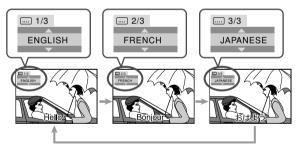


(at the same time)

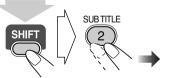
#### **2** Select the subtitle language.



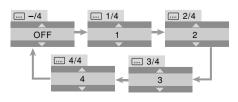




#### While playing an SVCD...



(at the same time)

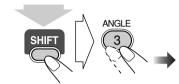


## Selecting the View Angle

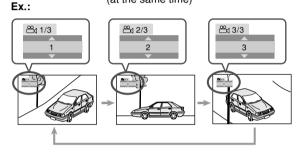
While playing back a chapter (of DVD Video) containing multi-view angles, you can view the same scene from different angles.

• You can also select the multi-view angles using the onscreen bar (see page 27).

While playing...



(at the same time)



### Playing Back a Bonus Group

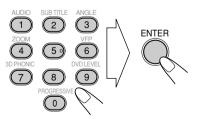
Some DVD Audios have a special group called "bonus group" whose contents are not open to the public.

• 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 14.

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



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

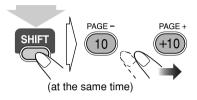
To cancel the key number entry, press ■.



## Selecting Browsable Still Pictures

While playing back a track (of DVD Audio) linked to browsable still pictures (BSP), 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 (BSP), they are usually shown in turn automatically during playback.
- You can also select the page using the on-screen bar (see page 27).



## Special Effect Playback (

#### Still picture playback

To start still picture playback:	To resume normal 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 ►.

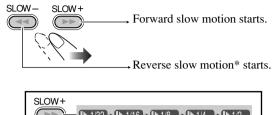
#### Slow-motion playback

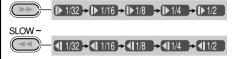
#### **1** While playing...



Still picture playback starts.

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





\*Not available for SVCD/VCD.

To resume normal playback, press DVD/CD ►.

#### To replay the previous scenes (One touch replay function)

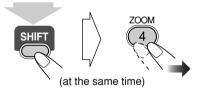
• This function is only used while playing DVD Video.



The playback position moves back 10 seconds before the current position (only within the same title).

## Zoom

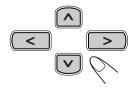
**1** While playing back....





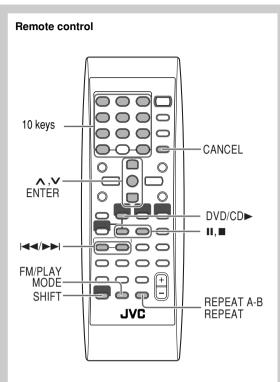
As the number increases, magnification also increases.

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

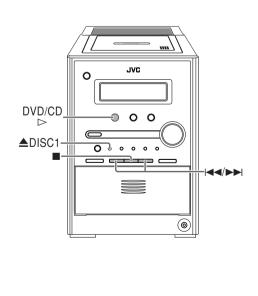


**To resume normal playback,** press ZOOM repeatedly until "ZOOM OFF" appears on the TV screen.

## **Advanced Disc Operations**



Main unit



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

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

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



On the display

PROGRAM	Chapter
	ihapter
6	
7	
8	
10	_
10	
USE NUMERIC KEYS TO PROGRAM TRACKS.	
USE CANCEL TO DELETE THE PROGRAM.	

On the TV screen

## 2 Select chapters or tracks you want for Program Play.For DVD/MP3/WMA:

- ① Select a disc number.
- ② Select a title or group number.
- ③ Select a chapter or track number.
- For SVCD/VCD/CD:
- ① Select a disc number.
- Select tracks.
  - If the disc is not in current tray, the System may prompt for the group/title number entry as well, however, during playback, the System will ignore these entries.
  - You can use ENTER button to skip the group/title number entry.

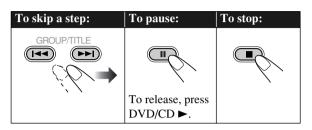
To enter the numbers:			
AUDIO SUB TITLE ANGLE 1 2 3 200M 5 6 30 PHCNIC 7 8 9 PAGE - 10 7 10 7 10 7 10 7 10 7 10 7 10 7 10	Examples: To enter number 5, press 5. To enter number 15, press +10, then 5. To enter number 30, press +10, +10, then 10.		

**3** Repeat the above step **2**.

### **4** Start playback.

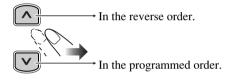


Playback starts in the order you have programmed.



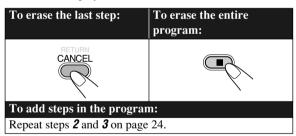
#### To check the programmed contents

Before or after playback ...



#### To modify the program

Before or after playback ...



#### To exit from Program Play

Before or after playback ...

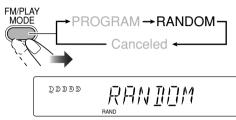


## Playing at Random—Random Play

You can play the chapters or tracks of all loaded discs at random.

• Random Play cannot be used for some DVDs.

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



#### **2** Start playback.



Playback starts in random order. Random Play ends when all the tracks are played once (when Repeat Play is not activated).

To skip a chapter/ track:	To pause:	To stop:
To skip to the begin- ning of the current track, press I◄◀ .	To release, press DVD/CD ►.	

• During Random Play, you cannot select disc by using DISC SELECT button.

#### To exit from Random Play

Before or after playback ...





### Playing Repeatedly

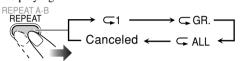
• You can also select the repeat mode using the on-screen bar (see page 28).

#### **Repeat Play**

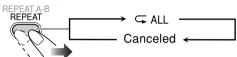
You can repeat playback.

#### • For DVD Video:

While playing...

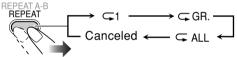


Before starting playback ...



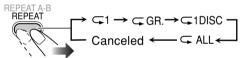
#### • For DVD Audio:

While playing or before playback...



#### • For MP3/WMA:

While playing or before playback ...

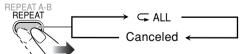


• For CD/SVCD/VCD:

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

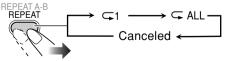


While playing (with PBC for SVCD/VCD) ...



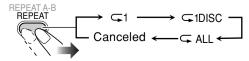
#### • For Program Play:

While playing or before playback...



For Random Play:

While playing or before playback ...

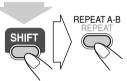


Ģ ALL	Repeats all discs in all tray or all programmed tracks.	
<b>Ģ</b> 1	Repeats the current chapter/track.	
Ģ GR.	Repeats the current title/group.	
Ģ 1DISC	Repeats the current disc.	
Canceled	Cancels Repeat Play mode.	

#### A-B Repeat

You can repeat playback of a desired portion by specifying the beginning (point A) and the ending (point B).

- A-B Repeat cannot be used for MP3/WMA and for some DVDs.
- A-B Repeat can be used within the same title while playing a DVD Video, and within the same track for the other discs.
- **1** While playing (without PBC for SVCD/VCD), select the start point (A).



A- lights on the display.
A- appears on the TV screen if the TV is turned on.

(at the same time)

- 2 Select the end point (B).
- → A- changes to → A-B.
   ▷ A-B appears on the TV screen.

· You can search for the end

point using the  $\rightarrow$  button.



(at the same time)

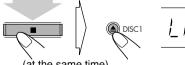
To cancel A-B Repeat, press REPEAT A-B again while holding SHIFT.

## Prohibiting Disc Ejection—Child Lock



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

• This is possible while the System is on standby. While the disc trays are closed...

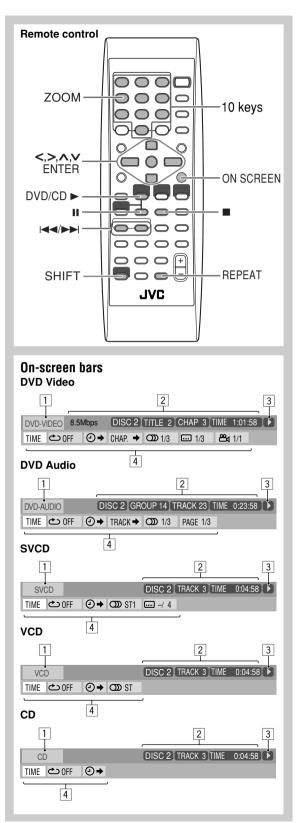


LDEKEI

(at the same time)

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

## **On-Screen Disc Operations**



## On-screen Bar Information

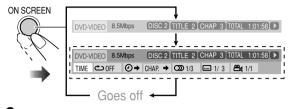
You can check the disc information (except for MP3/WMA/ JPEG disc) and use some functions through the on-screen bar.

1 Disc type			
2 Playback information			
Indication	Meanings		
Mbps	Current transfer rate		
	(Megabits per second)		
DISC 2	Current disc		
TITLE 2	Current title		
CHAP 3	Current chapter		
GROUP 1	Current group		
TRACK 14	Current track		
TOTAL 1:25:58	Time indications		
<b>3</b> Operation mo	<b>3</b> Operation modes		
Indication	Meanings		
	Playback		
	Forward/Reverse search		
	Forward/Reverse slow-motion		
	Pause		
	Stop		
4 Function icon	<b>4</b> Function icons (on the pull-down menu)		
Indication	Meanings		
TIME	Select to change the time indication.		
OFF	Select to repeat playback.		
<b>● →</b>	Select for time search.		
CHAP. ➡	Select for chapter search.		
TRACK +	Select for track search.		
CDD 1/3	Select to change the audio language or channel (see also page 21).		
<b></b> 1/3	Select to change subtitle language (see also page 22).		
<b>24</b> 1/3	Select to change the view angle (see also page 22).		
PAGE 1/5	Select to change the page (see also page 23).		

## Operations Using the On-screen Bar

Ex.: Selecting a subtitle (French) for DVD Video: While a disc is selected as the source...

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



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



 DVD-VIDEO
 8.5Mbps
 DISC 2 TITLE 2 CHAP 3 TOTAL 1:01:58 ▶

 TIME
 △ OFF
 ④ ← CHAP. → CDD 1/3
 □□ 1/3
 □□ 1/3
 □□ 1/3

#### $oldsymbol{3}$ 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

# ON SCREEN

For detailed operations of the following functions, see also "Operations Using the On-screen Bar" on the left.

#### Changing the time information

33)

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	DISC 2 TITLE 2	CHAP 3 1	TOTAL 1:01:58
TIME 🖒 (	IFF <b>∂</b> →	CHAP. 🔶 \multimap 1/3	···· 1/ 3	<b>🛱 1</b> /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 26.

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



#### 4 Select the repeat mode you want.

ALL	Repeats all discs or all programmed			
	track.			
A-B	Repeats a desired portion (see next column).			
TITLE	Repeats the current title.			
GROUP	Repeats the current group.			
DISC	Repeats the disc (except for DVD).			
CHAPTER	Repeats the current chapter.			
TRACK*	Repeats the current track.			
OFF	Cancels Repeat Play.			

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

#### 5 Finish the setting.



#### A-B Repeat

• See also page 26.

- 1 While playing, display the on-screen bar with the pulldown menu.
- 2 Select COFF.
- **3** Display the pop-up window.



4 Select "A-B".



5 Select the start point (A).



#### 6 Select the end point (B).



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

• Before pressing ENTER, you can search for the end point using ►►.

#### **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	8.5Mbps	DISC 2 TITLE 2 CHAP 3 TOTAL 1:01:58
TIME 🖒	)FF ⊙→	CHAP. → ODD 1/3 📖 1/3 🕰 1/1
	TIME	_::

#### 4 Enter the time.

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



#### 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).
- To correct a misentry, press cursor < to erase the last entry.
- 5 Finish the setting.



The System starts playing the disc from the selected playing time.

#### **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-VIDEO 8.5	Mbps	DISC 2	TITLE 2	CHAP 3 T	'OTAL 1:0	1:58 🕨
TIME 🗢 OFF	(2) → (2)	HAP. 🔶	<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.

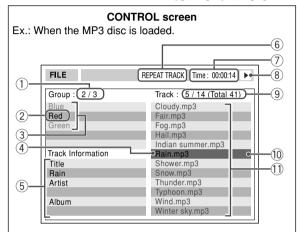


The System starts playing the searched chapter or track.

## Operations on the CONTROL Screen (

The CONTROL screen automatically appears on the TV screen when you load an MP3, WMA, or JPEG disc. You can search for and play the desired tracks through the CONTROL screen.

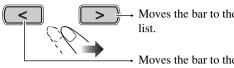
• If both types of files (MP3/WMA files and JPEG files) are recorded on a disc, select the file type to play (see page 39).



- ① Current group number/total group number
- 2 Current group
- ③ Group list
- ④ Current track (in blue)
- Track information (ID3 Tag Version 1.0: only for MP3/WMA)
- 6 Repeat Play setting
- Elapsed playing time of the current track (only for MP3/WMA)
- (8) Operation mode icon
- ④ Current track number/total number of tracks in the current group (total number of tracks on the loaded disc)
- 10 Highlight (green) bar
- Track list



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



Moves the bar to the track

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:	
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 few seconds, then changes one after another.

- · Once you start playing back a JPEG track, the CONTROL screen goes off.
- To cancel slide-show, and display the current still picture, press ENTER.

To skip a track:	To pause:	To stop playback:
	To release, press DVD/CD ►.	

#### To repeat slide-show for JPEG

While playing or before starting playback ...

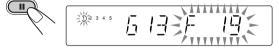


GR.	Repeats the current group.
⊊ 1DISC	Repeats the current disc.
G ALL	Repeats all disc.

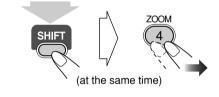
• For Repeat Play of MP3/WMA, see page 26.

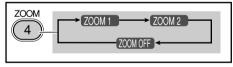
### To zoom in the still picture

- You cannot zoom in the still picture during slide-show.
- 1 While playing...



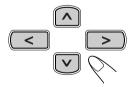
2 Change the magnification.





As the number increases, magnification also increases.

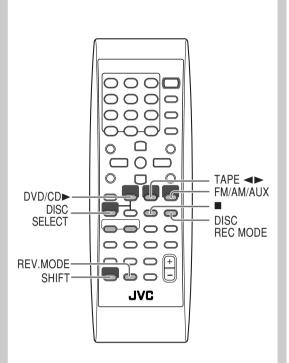
#### 3 Move the zoomed-in position.



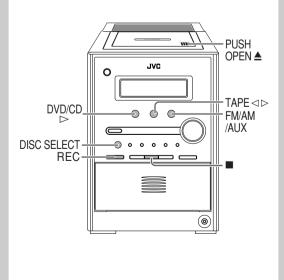
To resume normal playback, press ZOOM repeatedly until "ZOOM OFF" appears on the TV screen.

# **Advanced Tape Operations**

#### **Remote control**



#### Main unit



### IMPORTANT

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

## Recording on a Tape

You can use type I tapes for recording.

• To play a tape, see page 16.

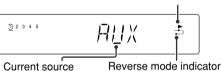
## **1** Insert a recordable cassette.



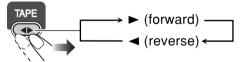
With the tape side facing outside

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

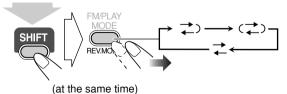
Tape direction indicator



To change the direction



## To change the Reverse mode if necessary



 →
 To record on both sides.

 • When using Reverse mode, start

 ( ( → ) )

 recording in the forward ( → ) direction.

 →

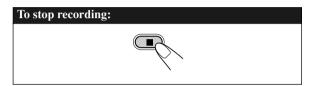
 To record on only one side.

- **3** Select and start playing the source—"FM," "AM," "DVD/CD," or "AUX."
  - When recording a disc, you can also use "Synchronized Disc Recording" (see below).

## **4** Start recording.



On the main unit



• While recording a disc, recording stops automatically after the disc player plays back the disc.

## Synchronized Disc Recording

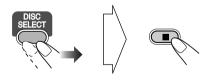
# You can start and stop both disc play and tape recording at the same time.

## **1** Load a disc and insert a recordable cassette.

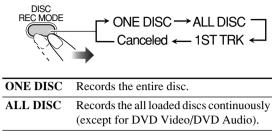
- If the current playing source is not the disc player, press DVD/CD ►, then ■.
- **2** Check the tape running direction and Reverse mode settings on the display.

• See step **2** of "Recording on a Tape" on page 32.

**3** Select the disc number you want to start recording from.



## **4** Select the Recording mode.



**1ST TRK** Records the first track of each disc (only for SVCD/VCD/CD).

# **5** Start recording when the recording mode selected in step **4** is still shown on the display.



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

On the main unit

- If the loaded disc is not compatible for the current recording mode, the disc player skips the disc and loads the next one.
- When either disc play or recording ends, both disc player and the cassette deck stop at the same time.

#### To record a "Live" disc

It will not be desirable to put 4-second blank portions between the tunes recorded on the tape. To record the entire disc without any interruption recorded, pause the disc play (press II on the remote control) before pressing REC.

### To record Program Play or Random Play

- 1 Select Program Play (and make a program) or Random Play, but do not start playback.
- 2 Press REC to start recording.
- When disc play stops, recording continues. It is required that recording be stopped manually.

## To record only your favorite track

You can specify tracks to be recorded on the tape while listening to a disc.

• This function is not available for DVD Video.

## **1** Start playing a disc.



**2** While a track you want to record on the tape is playing...



On the main unit

The disc player returns to the beginning of that track and the track is recorded on the tape. After recording the track, the disc player and cassette deck automatically stop.

0

## $\boldsymbol{3}$ Repeat steps 2 and 3 to record other tracks you want.

• You can exchange the discs if necessary.

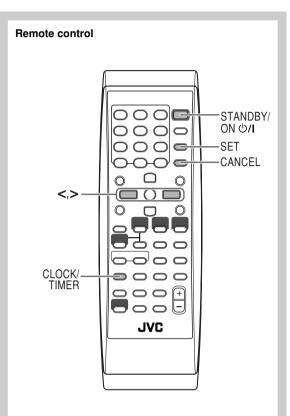
**To protect your recording** Cassettes have two small tabs on the back to protect from unexpected erasure or re-recording. **To protect your recording,** remove these tabs.



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



# **Timer Operations**



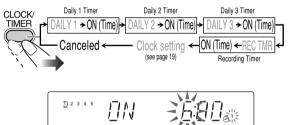
## Setting the Timer Conce >>>

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

- You can store three Daily Timer settings and one Recording Timer setting; however, you can activate only one of Daily Timers or Recording Timer at the same time.
- To exit from the timer setting, press CLOCK/TIMER as required.
- To correct a misentry during the process, press CANCEL. You can return to the previous step.

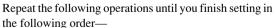
Timer initial settings when shipped from the factory:

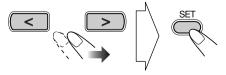
- DAILY 1:ON Time (6:00)/OFF Time (8:00)/ Source (TUNER FM 1)/Volume level (--)
- DAILY 2:ON Time (12:00)/OFF Time (14:00)/ Source (TUNER FM 1)/Volume level (--)
- DAILY 3:ON Time (18:00)/OFF Time (20:00)/ Source (TUNER FM 1)/Volume level (--)
- REC TMR:ON Time (8:00)/OFF Time (10:00)/ Source (TUNER FM 1)
- **1** Select one of the timer setting modes you want to set— Daily 1 ON time, Daily 2 ON time, Daily 3 ON time, or Recording Timer ON time.



Ex. When Daily Timer 1 setting mode is selected

- When the clock has not been adjusted, pressing CLOCK/TIMER makes the System enter the clock setting mode.
- **2** Make the timer setting as you want.





- $\bigcirc$  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," "TAPE," "DISC" or "AUX."



For Recording Timer: Select the playback source—"TUNER FM,""TUNER AM" or "AUX."

**④** For "TUNER FM" and "TUNER AM": Select a preset channel.

For "DISC": Select the disc number, group/title number, then the track/chapter number.

- **5** For Daily Timers: Select the volume level.
  - You can select the volume level ("VOL 1" to "VOL 50" and "VOL –"). If you select "VOL –," the volume is set to the last level when the unit has been turned off.

### For Recording Timer: The volume level is set automatically to the last level when the unit has been turned off.

Once settings are complete, the Timer setting information appears in sequence.

**3** Turn off the unit (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 timer number indicator (1/2/3) 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) or another timer is activated.

## When the on-time comes

The System turns on, tunes in to the specified station or start playing the loaded disc with the specified chapter or track, and sets the volume level to the preset level.

• While Daily Timer is working, the timer ( ④ ) indicator and timer number indicator (1/2/3) flash on the display.

#### When the off-time comes

The System stops playback, and turns off (stands by) automatically.

• 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 last level when the unit has been turned off, and starts recording.

#### When the off-time comes

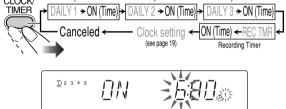
The System stops recording, and turns off (stands by).

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

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

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.

## CLOCK/ Daily 1 Timer Daily 2 Timer Daily 3 Timer



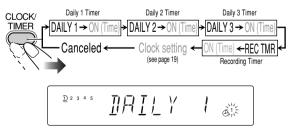
Ex.To cancel Daily Timer 1

## 2 Turn off the selected Timer.



#### To turn on the Timer

1 Select the Timer (DAILY 1, DAILY 2, DAILY 3, or REC TMR) you want to activate.

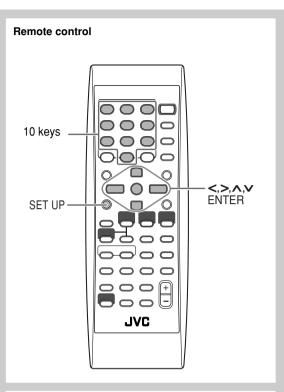


Ex.When Daily Timer 1 is selected

2 Activate the selected Timer.



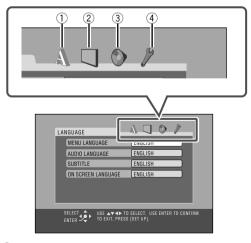
# **Setup Menu Operations**



## Setup Menu Icons

The icon for the selected Setup Menu will be highlighted.

## Ex.: LANGUAGE Setup Menu is selected.



- ① LANGUAGE Setup Menu
- 2 PICTURE Setup Menu
- 3 AUDIO Setup Menu
- 4 OTHERS Setup Menu

## Operating Procedure

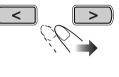
You can use the Setup Menus only when a disc is selected as the source and its playback is not yet started. Ex.: Selecting "STILL PICTURE" for "FILE TYPE":

## **1** Display the Setup Menu.





## **2** Select one of the Setup Menus.



P	ICTURE	$A \square \oslash /$
	MONITOR TYPE	4:3 LB
	PICTURE SOURCE	AUTO
	SCREEN SAVER	ON
	FILE TYPE	AUDIO
L		
		TO SELECT. USE ENTER TO CONFIR ISS (SET UP).

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





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



MONITOR TYPE	4:3 LB
PICTURE SOURCE	AUTO
SCREEN SAVER	ON
FILE TYPE	AUDIO STILL PICTURE

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



PI	CTURE	A . O /
	MONITOR TYPE	4:3 LB
	PICTURE SOURCE	AUTO
	SCREEN SAVER	ON
	FILE TYPE	AUDIO STILL PICTURE
	SELECT I USE AT TO ENTER I TO EXIT, PRE	SELECT. USE ENTER TO CONFIRM SS (SET UP).

## *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 erase the Setup Menu



## LANGUAGE Setup Menu

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

LAI	NGUAGE			0 1	
	MENU LANGUAG	E	ENGLISH		
_	AUDIO LANGUA	ε	ENGLISH		
_	SUBTITLE		ENGLISH		
	ON SCREEN LAN	GUAGE	ENGLISH		
		A▼◀► TO : Exit, press		ENTER TO C	ONFIRM

## 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 47).

## 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 47).

## SUBTITLE

Some discs have multiple subtitle languages. Select from-ENGLISH, SPANISH, FRENCH, CHINESE, GERMAN, ITALIAN, JAPANESE, AA - ZU (see "Language Code List" on page 47) or "OFF (no subtitle)."

## **ON SCREEN LANGUAGE**

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

## PICTURE Setup Menu

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

PICTURE		A 🗆 🔿	87
MONITOR TY	/PE	4:3 LB	
PICTURE SO	URCE	AUTO	
SCREEN SAV	/ER	ON	
FILE TYPE		AUDIO	
	USE ▲▼ ◀► TO : TO EXIT, PRESS	SELECT. USE ENTEF [SET UP].	

## MONITOR TYPE

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

## Select one of the following:

### 16:9 (Wide television conversion):

Select when the aspect ratio of your TV is 16:9 and when the TV has the screen size adjustment function.

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

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):

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.







Ex.: 16:9

## **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 picture 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) and still picture (JPEG 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.

## ■ AUDIO Setup 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:

	To connect to a linear PCM digital equipment.
/PCM:	To connect to a Dolby Digital decoder or an amplifier with a built-in Dolby Digital decoder.
	To connect to a DTS decoder or an amplifier with a built-in DTS decoder.

• See also "DVD OPTICAL DIGITAL OUT Signals" on page 49.

## DOWN MIX

When using the digital output on the rear, set this correctly according to the connected component. When playing a multi-channel DVD, the System converts

When playing a multi-channel DVD, the System converts the signals into 2 channels properly.

### Select one of the following:

DOLBY SUBBOUND:	To connect an amplifier with the Dolby Pro Logic decoder.	
STEREO:	To connect a conventional stereo	
STEREO.	amplifier, receiver, MD player, TV, etc.	

## **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 apply the compression effect to the
	downmixed multi-channel sound.

ON: To always apply the compression effect for all Dolby Digital software. Loud sound will become low and vice versa.

## **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 VIDEO-3 Input jack on the TV.
DVD2:	To connect to the VIDEO-1 Input jack on the TV.
DVD3:	To connect to the VIDEO-2 Input jack on the TV.

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.

## OTHERS Setup Menu

You can change some other convenient functions.

OTHERS			0	<u>}</u>	
RESUME		ON			
ON SCREEM	I GUIDE	ON			
AV COMPU	LINK MODE	DVD1			
PARENTAL	LOCK				
	USE AV 4 TO TO EXIT, PRESS		E ENTER '	TO CONFIRN	

## RESUME

You can activate or deactivate Resume for disc playback (see page 14).

#### 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 14).

• 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.

# 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

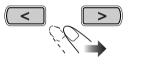
Set the rating level—Level 1 (most restrictive) to Level 8 (least restrictive).

## **1** Display the Setup Menu.



LANGUAG	E		11
MENU	LANGUAGE	ENGLISH	
AUDIO	LANGUAGE	ENGLISH	
SUBT	TLE	ENGLISH	
ON SC	REEN LANGUAGE	ENGLISH	
SELECT ENTER	USE AT TO TO EXIT, PRESS	SELECT. USE ENTEI (SET UP).	R TO CONFIRI

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





## **3** Select "PARENTAL LOCK."



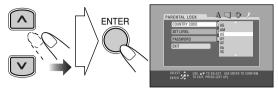
OTHERS	_		
RESUME		ON	
ON SCREEN	GUIDE	ON	
AV COMPULI	NK MODE	DVD1	
PARENTAL L	DCK		
ENTER 🔅	USE AT IN TO TO EXIT, PRESS	SELECT. USE ENTER TO CONFIRM [SET UP].	

## **4** Enter the PARENTAL LOCK submenu.



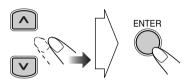
PARENTAL LOCK	
COUNTRY CODE	US
SET LEVEL	NONE
PASSWORD	
EXIT	
SELECT	TO SELECT. USE ENTER TO CONFIRM RESS [SET UP].

**5** Select "COUNTRY CODE," then display the pop-up window.

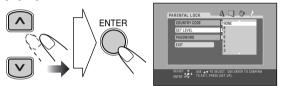


## **6** Select the country code of your area.

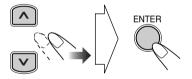
• See "Country/Area Codes List" on page 48 to find your country code.



7 Make sure "SET LEVEL" is selected, then display the pop-up window.

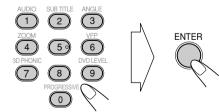


**\boldsymbol{8}** Set the rating level (NONE, 8 – 1).



The System automatically enters "PASSWORD" entry mode.

**9** Make sure "PASSWORD" is selected, then enter any 4-digit number for your password.



**10** Finish the setting.



## To change the setting

**1** Display the PARENTAL LOCK sub menu.

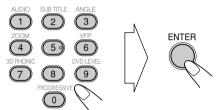
• Follow steps **1** to **4** of "To set Parental Lock".



"PASSWORD" is automatically selected.

• You cannot select any item other than "EXIT" until you enter the correct password.

## **2** Enter your password.



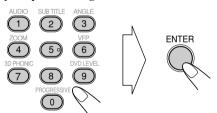
• If you enter a wrong password, "----" appears again.

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 **5** to **8** of "To set Parental Lock".

## **4** Enter your password again.



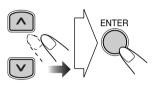
• If you want to change a password, enter a new four digit number in this step.

## 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.

PARENTAL LOCK	
TEMPORARY RELEASE	
NOT RELEASE	
PASSWORD	
SELECT . USE ▲▼ TO SELECT. USE ENTER TO CONFIRM. ENTER .	

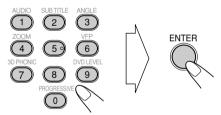
# **1** Select "TEMPORARY RELEASE," then press ENTER.



"PASSWORD" is automatically selected.

• If you do not play back such a disc, select "NOT RELEASE," then press 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.

# **Additional Information**

## Learning More about This System 🔵 🔵

## Getting Started (see pages 3 to 7)

## **Changing the Scanning Mode:**

• To enjoy the progressive video picture, connect a TV with the progressive video input using component video cord.

## Daily Operations—Playback (see pages 12 to 16)

## 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:

- When using an 8 cm disc, place it on the inner circle of the disc tray.
- 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.
- When discs\* in more than one tray are loaded on the disc trays, they are played in sequence as follows: Ex.:When DISC 2 is selected:
  - DISC 2⇒DISC 3⇒DISC 4⇒DISC 5⇒DISC 1 (then stops)
- \* When no disc is loaded on the tray, that disc number is skipped.
- You can exchange discs while playing or selecting another disc.
- Some DVD Audio discs prohibit downmixed output. When you play back such a disc, "LR ONLY" appears on the display and the System plays back the left front and right front signals.
- 3D Phonic setting is also applied to the optical digital output signals through the DVD OPTICAL DIGITAL OUT terminal.
- When using Resume on SVCD or VCD with PBC, the playback might start on a position slightly different from where you have stopped.
- You can use Resume only for the DVD/SVCD/VCD except for some discs—depending how the disc is programmed.
- Resume function does not work during Program Play and Random Play.

- For MP3/WMA/JPEG playback...
- This System cannot play "packet write" discs.
- MP3/WMA/JPEG discs are required a longer readout time than regular CDs. (It depends on the complexity of the group/file configuration.)
- Some MP3/WMA/JPEG files cannot be played back and will be skipped. This result from their recording processes and conditions.
- When making MP3/WMA discs, use ISO 9660 Level 1 or Level 2 for the disc format.
- This System can play back MP3/WMA/JPEG files with the extension code <.mp3>, <.wma> or <.jpg> (regardless of the letter case—upper/lower).
- It is recommended that you make each MP3 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.
- This System can recognize the total of 1000 tracks and of 99 groups (each group can contain up to 150 tracks). Those exceeding the maximum number cannot be recognized.

# Daily Operations—Sound&Other Adjustments (see pages 17 to 20)

## Adjusting the Volume:

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

## Adjusting the Sound:

• This function also affects the sound through the headphones.

## 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 21 to 23)

- During slow-motion playback, no sound will be reproduced.
- One touch replay function works only within the same title, though it works between chapters.
- One touch replay function does not work during Program Play and Random Play.
- While zoomed in, the picture may look coarse.

#### Advanced Disc Operations (see pages 24 to 26) Programming the Plaving Order—Program Play:

- If you try to program a 100th track, "MEM FULL (memory full)" appears on the display.
- 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).
- You cannot use Program Play and Random Play for JPEG discs.
- You cannot eject tray while in Program Play.

#### Playing at Random—Random Play:

• The I button does not work for skipping chapters or tracks, but only work for going back to the beginning of the current chapter or track.

## **On-Screen Disc Operations** (see pages 27 to 31)

- 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 System may not play back JPEG files properly which are recorded by the devices other than digital still camera.
- If progressive or lossless JPEG files are played back, a black screen appears. In this case, stop playback and select a baseline JPEG file. Note that it may take a long time to select another file.

## Advanced Tape Operations (see pages 32 to 34) **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 end of cassette tapes. Thus, when recording CDs or radio broadcasts, wind the leader tape first to ensure that the recording will be made without any music part lost.
- · If you start recording with no cassette inserted, "NO TAPE" appears on the display. If a protected tape has been inserted, "NO REC" appears.
- · 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 can also change Reverse mode setting  $( \rightarrow)$  and  $\rightarrow)$ after starting recording.
- You cannot open or close the disc tray while recording a disc.

#### Synchronized Disc Recording:

• When the tape reaches its end in the forward direction (►) during recording with Reverse mode set to  $\rightarrow$ ), the last tune will be re-recorded at the beginning of the reverse side (except for DVD Video).

## Timer Operations (see pages 35 and 36)

- 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 start recording.
- 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.

## Setup Menu Operations (see pages 37 to 42) LANGUAGE Setup 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 Setup Menu—MONITOR TYPE:**

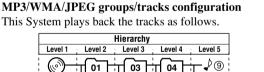
- Even if "4:3 PS" is selected, the screen size may become 4:3 letter box with some DVD Video discs. This depends on how the discs are recorded.
- When you select "16:9" for a picture whose aspect ratio is 4:3, the picture slightly changes due to the process for converting the picture width.

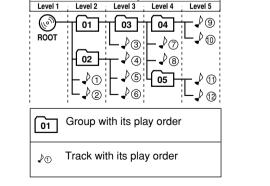
#### AUDIO Setup Menu—DOWN MIX:

· This setting is not effective when DTS multi-channel software is played back.

#### **OTHERS Setup Menu—ON SCREEN GUIDE:**

· Setup Menus 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 and mechanism clean.

## Handling discs

- When removing the disc from its case, hold 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.
- 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.

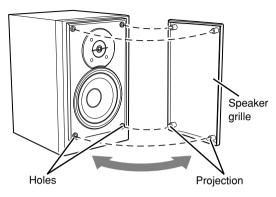
## Handling cassette tapes

- 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 strongly.
- 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.

#### To remove the speaker grilles



## 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 the 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 scanning.

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

 $\Rightarrow$  Select "4:3 LB" for "MONITOR TYPE" (see page 38).

## **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.

#### ID3 Tag on an MP3/WMA 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/WMA/JPEG 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 or JPEG tracks are not played back.

- ⇒ The inserted disc may includes both type of tracks (MP3/WMA files and JPEG files). In this case, you can only play back the files selected by the "FILE TYPE" setting (see page 39).
- ⇒ You have changed the "FILE TYPE" setting after you inserted a disc. In this case, reload the disc.

#### "NO AUDIO" appears.

⇒ This System cannot play back illegally produced DVD Audio discs.

#### "LR ONLY" appears.

⇒ Some DVD Audio discs prohibit downmixed output. When you play back such a disc, this System plays back the left front and right front signals only.

#### The disc sound is discontinuous.

 $\Rightarrow$  The disc is scratched or dirty.

#### 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 26).

## **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 and Recording Timer do not work.

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

## Setup Menu Operations:

# 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 (while holding SHIFT) after starting play (see page 22).

# 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 (while holding SHIFT) after starting play (see page 21).

## Language Code List

AAAfarABAbkhazianAFAfrikaansAMAmeharicARArabicASAssameseAYAymaraAZAzerbaijaniBABashkirBEByelorussianBGBulgarianBHBihariBIBislamaBNBengali, BanglaBOTibetanBRBretonCACatalanCOCorsicanCSCzechCYWelshDADanishDZBhutaniELGreekEOEsperantoETEstonianFJFijiFAPersianFJFijiFQScots GaelicGLGalicianGNGuaraniGUGujaratiHAHausaHIHindiHRCroatianHAHausaHIHindiHRCroatianIKIndenesianISicelandicIKInupiakINHacesianISicelandicIWHebrewJIYiddish		
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IW Hebrew		
JI Yiddish		
	JI	Yiddish

JW	Javanese
KA	Georgian
КК	Kazakh
KL	Greenlandic
КМ	Cambodian
KN	Kannada
КО	Korean (KOR)
KS	Kashmiri
KU	Kurdish
KY	Kirghiz
LA	Latin
LN	Lingala
LO	Laothian
LT	Lithuanian
LV	Latvian, Lettish
MG	Malagasy
MI	Maori
MK	Macedonian
ML	Malayalam
MN	Mongolian
MO	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

SL	Slovenian
SM	Samoan
SN	Shona
SO	Somali
SQ	Albanian
SR	Serbian
SS	Siswati
ST	Sesotho
SU	Sundanese
SV	Swedish
SW	Swahili
TA	Tamil
TE	Telugu
TG	Tajik
ТН	Thai
TI	Tigrinya
ТК	Turkmen
TL	Tagalog
TN	Setswana
то	Tonga
TR	Turkish
TS	Tsonga
TT	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

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
ВТ	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
СК	Cook Islands
CL	Chile
СМ	Cameroon
CN	China
CO	Colombia
CR	Costa Rica
CU	Cuba
CV	Cape Verde
CX	Christmas Island
CY	Cyprus
CZ	Czech Republic
DE	Germany
DJ	Djibouti
	5.000

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
GNI	Guinea
GN	
	Guadeloupe
GQ GR	Equatorial Guinea
-	Greece
GS	South Georgia and the South
CT	Sandwich
GT	Guatemala
GU	Guam
GW	Guinea-Bissau
GY	Guyana
HK	Hong Kong
HM	Heard Island and McDonald
	Islands
HN	Honduras
HR	Croatia
HT	Haiti
HU	Hungary
ID	Indonesia
IE	Ireland
IL	Israel
IN	India
ю	British Indian Ocean Territory
IQ	Iraq
IR	Iran (Islamic Republic of)
IS	Iceland
IT	Italy

JO	Jordan
JP	Japan
KE	Kenya
KG	Kyrgyzstan
KH	Cambodia
KI	Kiribati
KM	Comoros
KN	Saint Kitts and Nevis
КР	Korea, Democratic People's
	Republic of
KR	Korea, Republic of
KW	Kuwait
KY	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
LV	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
L	-

NP	Nepal
NR	Nauru
NU	Niue
NZ	New Zealand
ОМ	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

TT	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

## DVD OPTICAL DIGITAL OUT 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	DTS bitstream	48 kHz, 16 bi	t Linear PCM			
DVD Audio						
with 48/96/192 kHz,	48 kHz, 16 bit Linear PCM					
16/20/24 bit Linear PCM						
with 44.1/88.2/176.4 kHz,	44.1 kHz, 16 bit Linear PCM					
16/20/24 bit Linear PCM						
with Dolby Digital	Dolby Digi	tal bitstream	48 kHz, 16 bit Linear PCM			
with DTS	DTS bitstream	DTS bitstream 48 kHz, 16 bit Linear PCM				
SVCD, VCD, CD	44.1 kHz, 16	bit Linear PCM/48 kHz, 16 b	it Linear PCM			
CD with DTS	DTS bitstream	44.1 kHz, 16 b	oit Linear PCM			
MP3/WMA disc	32	/44.1/48 kHz, 16 bit Linear P	СМ			

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



## Specifications

## **Amplifier section**

7	00001011	
Output Pov	wer:	
HIG	H: 40 W (20 W+	- 20 W) at 4 Ω (10% THD)
	50 W (25 W+	- 25 W) at 4 Ω (10% MAX)
LOW	V: 40 W (20 W+	- 20 W) at 4 $\Omega$ (10% THD)
	50 W (25 W-	- 25 W) at 4 $\Omega$ (10% MAX)
Analog inp	out:	
AUX:	Sensitivity	/Impedance (at 1 kHz)
	,	$V k\Omega$ (at "AUX LEVEL 1")
	200 mV/47	$^{\prime}$ k $\Omega$ (at "AUX LEVEL 2")
Digital out	put: ICAL DIGITAL OI	JT:
	-21 dBm to	$p = -15 \text{ dBm} (660 \text{ nm} \pm 30 \text{ nm})$
		· · · · · · · · · · · · · · · · · · ·
VIDEO OU	JT:	
Color syste	em:NTSC	
VIDEC	O (composite):	1 V(p-p)/75 Ω
S-VID	EO: Y (luminance)	1 V(p-p)/75 Ω
	C (chrominanc	e, burst)
		0.286 V(p-p)/75 Ω
COMP	ONENT: (Interlace,	/Progressive):
	(Y)	1 V(p-p)/75 Ω
	(PB/PR)	0.7 V(p-p)/75 Ω
Speake	r Terminals:	$4 \Omega - 16 \Omega$

#### Others:

AV COMPU LINK x 2 (\$ 3.5)

## **Tuner section**

 FM tuning range:
 87.5 MHz – 108.0 MHz

 AM tuning range:
 531 kHz – 1 710 kHz (at 9 kHz)

 530 kHz – 1 710 kHz (at 10 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 format) DVD-R/DVD-RW (recorded in video format) Dynamic range: 90 dB Horizontal resolution: 500 lines Wow and flutter: Immeasurable MP3 recording format: MPEG 1/2 Audio Layer 3 Max. Bit rate: 320 kbps

## **Cassette deck section**

Frequency response Normal (type I): 50 Hz – 14 000 Hz Wow and flutter: 0.15% (WRMS)

## General

## **Supplied Accessories**

See page 3.

## **Speakers**

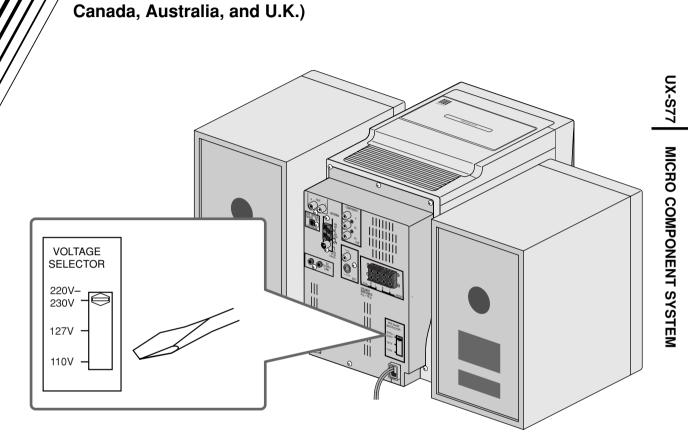
•	
Type:	2-Way Bass-reflex type
Speaker Systems:	Woofer: 10 cm cone x 1
	Tweeter: 4 cm cone x 1
Power handling capacity:	HIGH: 20 W
	LOW: 20 W
Impedance:	HIGH: 4Ω
	LOW: 4Ω
Frequency range:	56 Hz – 40 000 Hz
Sound pressure level:	84 dB/W•m
Dimensions (approx.):	145 mm x 236 mm x 205 mm
	(W/H/D)
Mass (approx.):	2.3 kg each

Design and specifications are subject to change without notice.

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# **MEMO**

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Mains (AC) Line Instruction (not applicable for Europe, U.S.A.,

## CAUTION for mains (AC) line

BEFORE PLUGGING IN, do check that your mains (AC) line voltage corresponds with the position of the voltage selector switch provided on the outside of this equipment and, if different, reset the voltage selector switch, to prevent from a damage or risk of fire/electric shock.

