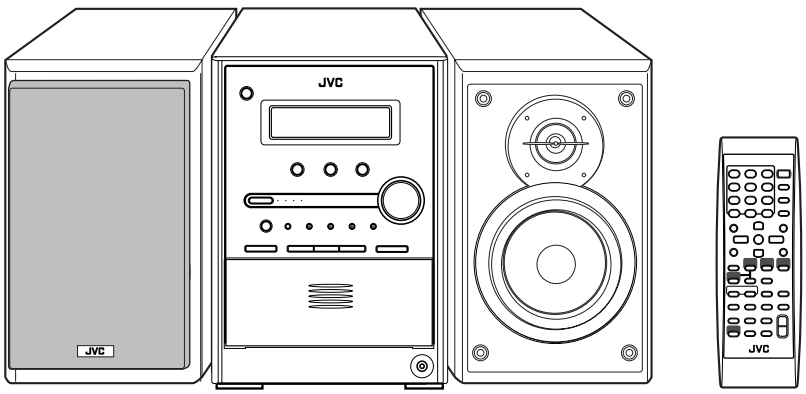
JVC

COMPACT COMPONENT SYSTEM

FS-S77B/FS-S77S

—Consists of CA-FSS77 and SP-UXS77B/SP-UXS77S



COMPACT disc SUPER VIDEO

dts 2.0+DIGITAL OUT™

DOLBY DIGITAL

DVD AUDIO/VIDEO™

3D-PHONIC

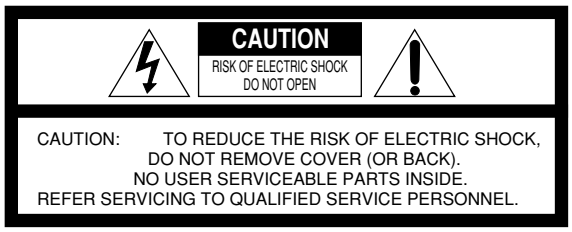
INSTRUCTIONS

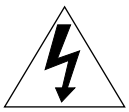
For Customer Use:
Enter below the Model No. and Serial No. which are located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____

GVT0131-001A
[J]





The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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

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.

ATTENTION

Afin d'éviter tout risque d'électrocution, d'incendie, etc.:

1 Ne pas enlever les vis ni les panneaux et ne pas ouvrir le coffret de l'appareil.
2 Ne pas exposer l'appareil à la pluie ni à l'humidité.

CAUTION—STANDBY/ON ⏻/I button!
Disconnect the mains plug to shut the power off completely (all lamps and indications go off). The STANDBY/ON ⏻/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.

Attention—Touche STANDBY/ON ⏻/I (attente/sous tension)!
Déconnectez la fiche secteur pour mettre l'appareil complètement hors tension (tous les témoins et toutes les indications s'éteignent). La touche STANDBY/ON ⏻/I dans n'importe quelle position ne déconnecte pas l'appareil du secteur.

- Quand l'appareil est en mode d'attente, le témoin STANDBY/ON est allumé en rouge.
- Quand l'appareil est sous tension, le témoin STANDBY/ON est allumé en vert.

L'alimentation ne peut pas être commandée à distance.

For U.S.A.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

For Canada/pour le Canada

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQUAU FOND.

Note to CATV system installer:

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

For Canada/pour le Canada

THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS B LIMITS FOR RADIO NOISE EMISSIONS FROM DIGITAL APPARATUS AS SET OUT IN THE INTERFERENCE-CAUSING EQUIPMENT STANDARD ENTITLED "DIGITAL APPARATUS," ICES-003 OF THE DEPARTMENT OF COMMUNICATIONS.

CET APPAREIL NUMERIQUE RESPECTE LES LIMITES DE BRUITS RADIOELECTRIQUES APPLICABLES AUX APPAREILS NUMIRIQUES DE CLASSE B PRESCRITES DANS LA NORME SUR LE MATERIEL BROUILLEUR: "APPAREILS NUMERIQUES", NMB-003 EDICTEE PAR LE MINISTRE DES COMMUNICATIONS.

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

1 PRODUIT LASER CLASSE 1
2 **ATTENTION**: N'ouvrez pas le couvercle supérieur. Il n'y a aucune pièce réparable par l'utilisateur à l'intérieur de l'appareil; confiez toute réparation à un personnel qualifié.
3 **ATTENTION**: Risque de radiations laser visible et invisible quand l'appareil est ouvert ou que le systéme de verrouillage ne fonctionne pas ou a été mis hors service. Évitez toute exposition directe au rayon.
4 REPRODUCTION DE L'ÉTIQUETTE: ÉTIQUETTE DE PRÉCAUTION PLACÉE L'INTERIEUR DE L'APPAREIL.

CAUTION : Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)

VARNING : Synlig och osynlig laserstrålning när den öppnas och spärren är urkopplad. Betrakta ej strålen. (s)

ADVARSEL : Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling. (d)

VARO : Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä 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.

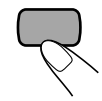
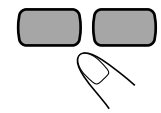
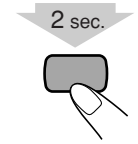
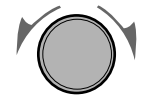
- If you are not going to operate the System for an extended period of time, unplug the AC power cord from the wall outlet.

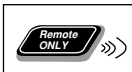
If anything goes wrong, unplug the AC power cord and consult your dealer.

How to Read This Manual

To make the explanations in this manual as simple and easy-to-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.

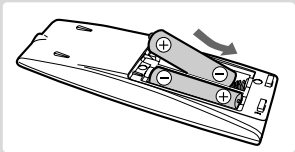
	Indicates that you press the button **briefly**.
	Indicates that you press the button **briefly and repeatedly** until an option you want is selected.
	Indicates that you press one of the buttons.
	Indicates that you **press and hold** the button for a specified period. • The number inside the arrow indicates the period of press (in this example, 2 seconds). • If no number is inside the arrow, press and hold until the entire procedure is complete or until you get a result you want.
	Indicates that you turn the control toward the specified direction(s).

	Indicates that this operation is only possible using the remote control.
	Indicates that this operation is only possible using the buttons and controls on the main unit.

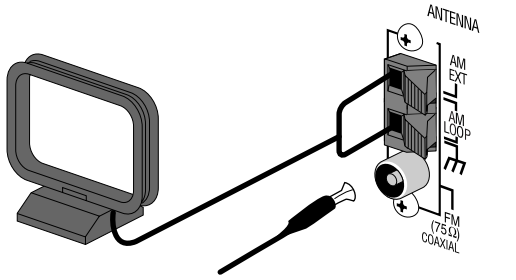
Getting Started

Step *1*: Unpack the package and check the accessories.

Step *2*: Prepare the remote control.



Step *3*: Hook up the components such as AM/FM antennas, speakers, etc. (see pages 4 to 6).



Finally plug the AC power cord.

Now you can operate the System.

Step *1*: Unpack

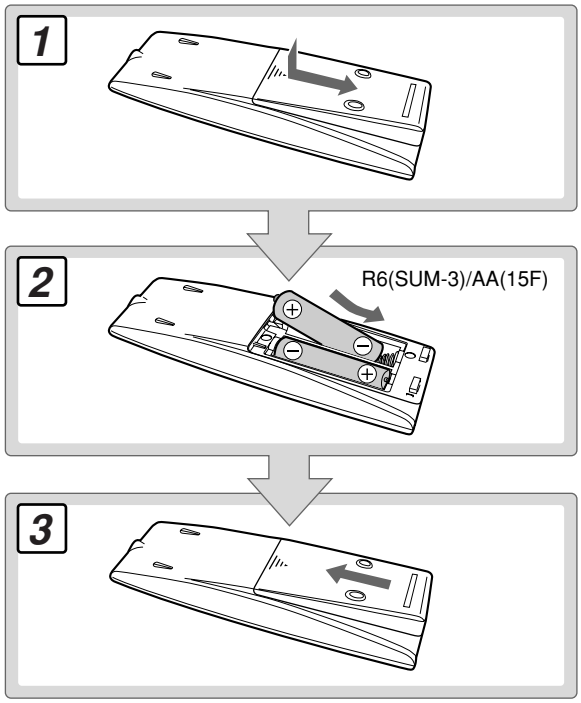
After unpacking, check to be sure that you have all the following items. The number in parentheses indicates the quantity of each piece supplied.

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

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.



STOP!

- 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.

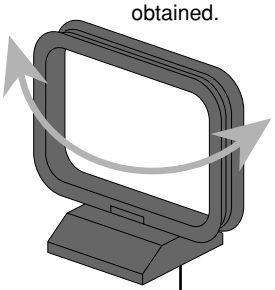
Step 3: Hook Up

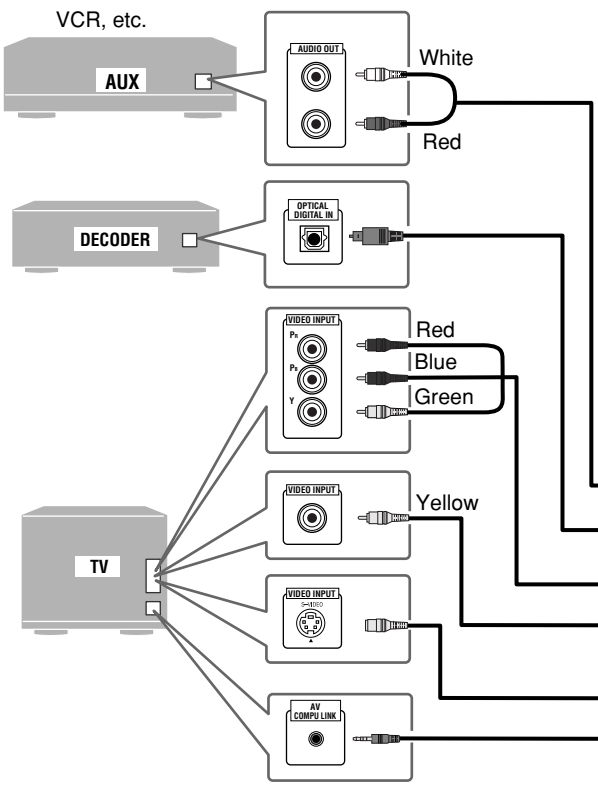
If you need more detailed information, see page 6.

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.





Audio cord (not supplied)

Optical digital cord (not supplied)

Component video cord (not supplied)

Composite video cord (supplied)

S-VIDEO cord (not supplied)

AV COMPU LINK cord (not supplied)
(cord with monaural mini plug)
• For details, see "To connect the AV COMPU LINK cords" on page 6.

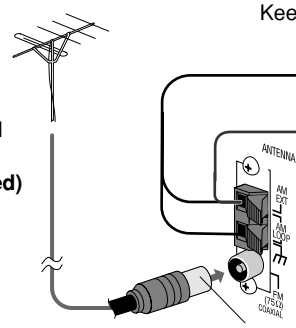
To a wall outlet
Plug the AC power cord only after all connections are complete.

For better FM/AM reception

AM loop antenna
Keep it connected.

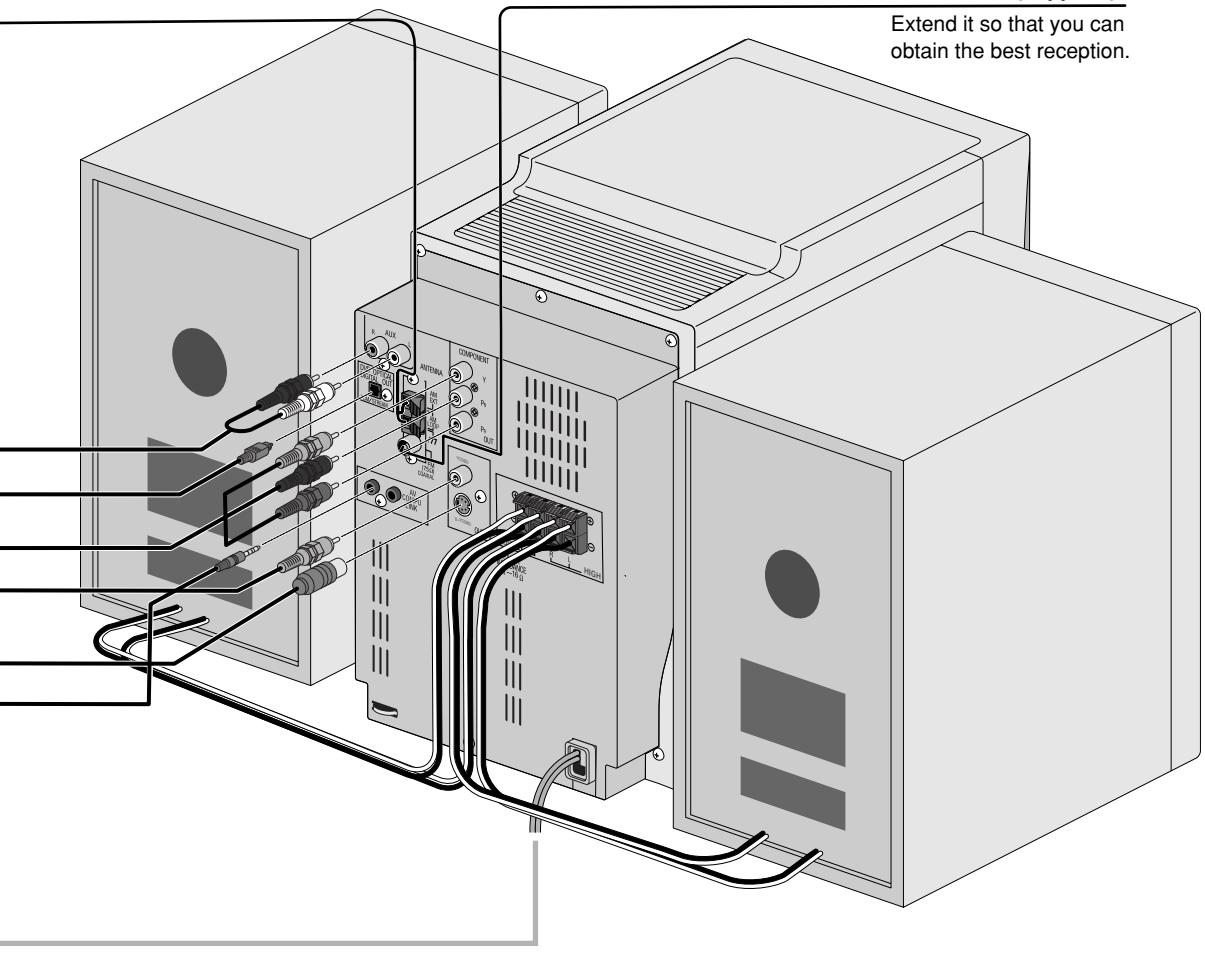
Outdoor FM antenna (not supplied)

Vynile-covered wire (not supplied)
Extend it horizontally.



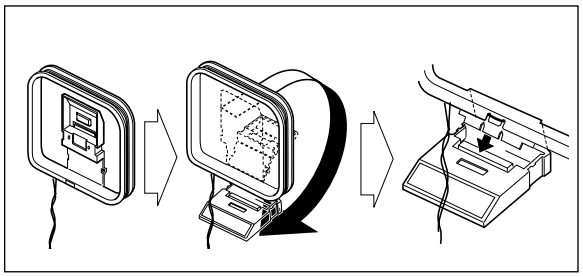
Disconnect the supplied FM antenna, and connect to an outdoor FM antenna using a 75 Ω wire with coaxial type connector (IEC or DIN45325).

FM antenna (supplied)
Extend it so that you can obtain the best reception.

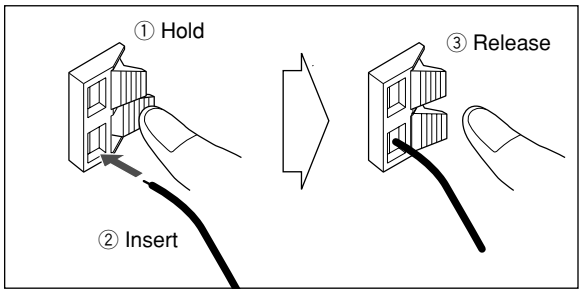


To assemble and connect the AM loop antenna

To assemble the AM loop antenna



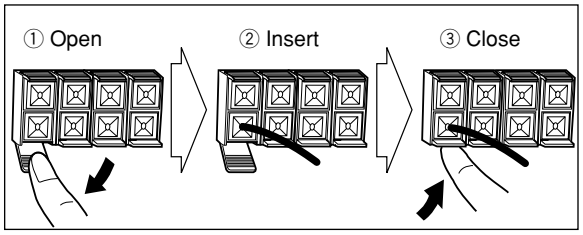
To connect the AM loop antenna



- 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 (–).

STOP!

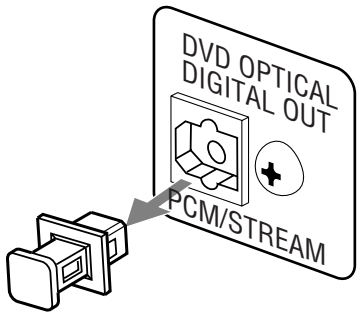
- DO NOT connect more than one speaker to each terminal.
- DO NOT allow the conductor of the speaker cords to be in touch with the metallic parts of the System.

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



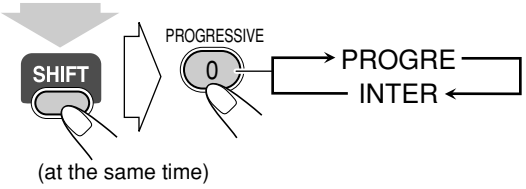
Before connecting optical digital cord, remove the protective cap from the DVD OPTICAL DIGITAL OUT terminal.

Changing the Scanning Mode

Remote ONLY

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	1 or ALL
DVD Audio			
Video CD (VCD)			—
Super Video CD (SVCD)			—
Audio CD		—	—
CD-R	The System can play back CD-R or CD-RW recorded in the Audio CD, Video CD, SVCD, MP3, WMA, and JPEG formats.		
CD-RW			
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 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...

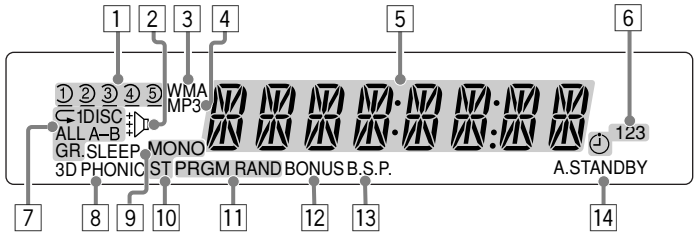
- Turn on the TV and select an appropriate input mode on the TV to view the pictures or on-screen displays on the TV screen.
- For disc playback, you can change the initial setting to your preference. See “Setup Menu Operations” on page 31.

If “ ⃠ ” 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.

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.
  – Blinking while playing back a disc.
  – Goes off when there is no disc in the tray.
- ↻ (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 14).

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 "AUX": "AUX" appears.
- While playing a disc: see "Indications on the main display while operating a disc" on page 9.

6 Timer indicators
- ◴ :lights when Daily 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.

7 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.

8 3D PHONIC indicator
- Lights when 3D PHONIC is activated (see page 13).

9 SLEEP indicator
- Lights when the Sleep Timer is activated.

10 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.

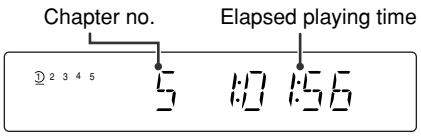
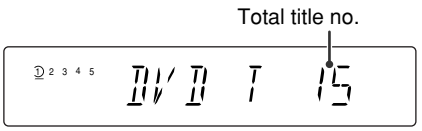
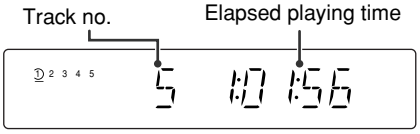
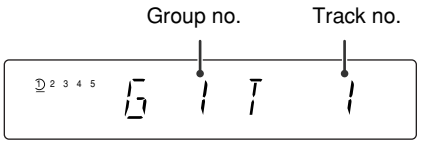
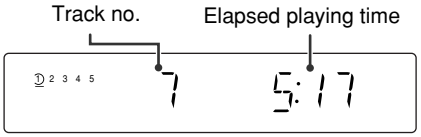
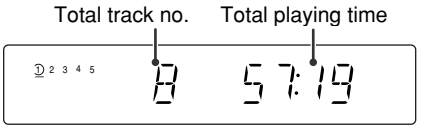
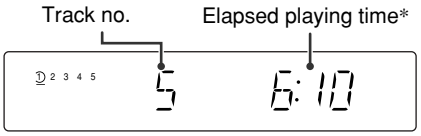
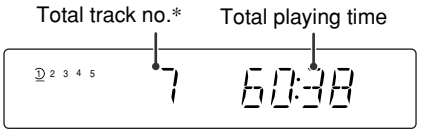
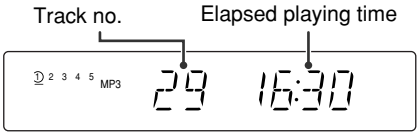
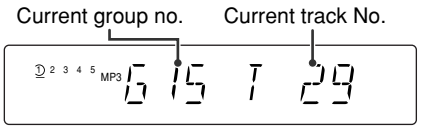
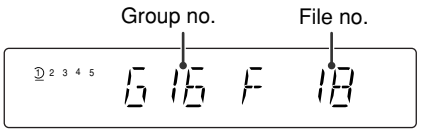
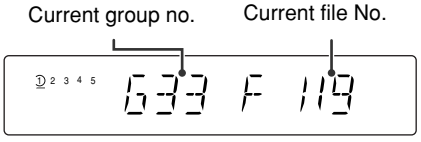
11 Disc operation indicators
- PRGM (program): lights when Program Play mode is activated.
- RAND (random): lights when Random Play mode is activated.

12 BONUS indicator
- Lights when a DVD Audio with a bonus group is detected (see page 19).

13 B.S.P. indicator
- Lights when the current disc is DVD Audio with browsable still picture (see page 20).

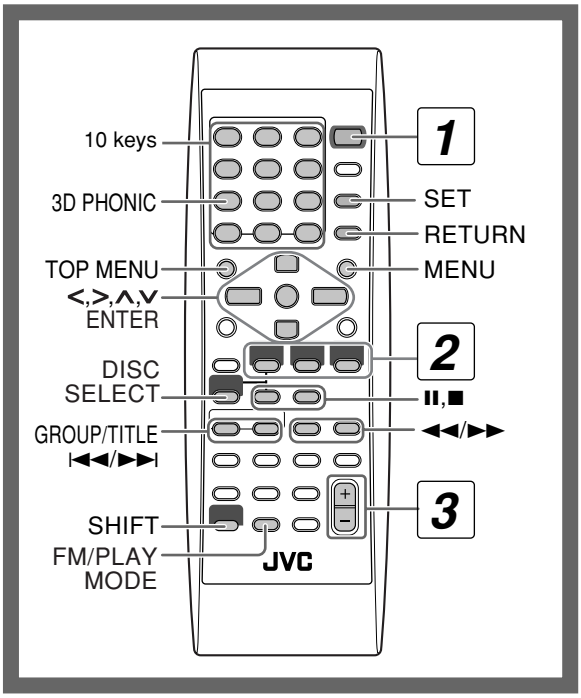
14 A (auto). STANDBY indicator
- Lights when Auto Standby is activated.
- Flashes when disc playback stops with Auto Standby activated.

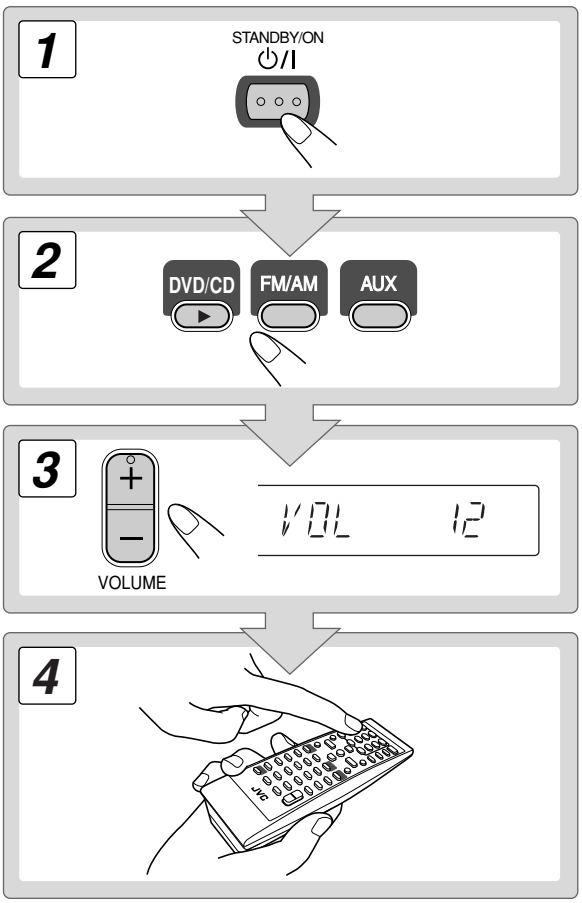
Indications on the main display while operating a disc

While playing back a disc:	While disc play is stopped:
• DVD Video:  • By pressing DISPLAY, you can show the current title and chapter numbers for a few seconds.	• DVD Video: 
• DVD Audio:  • By pressing DISPLAY, you can show the current group and track numbers for a few seconds.	• DVD Audio: 
• Audio CD: 	• Audio CD: 
• SVCD/VCD:  * "PBC" appears while playing a disc with PBC.	• SVCD/VCD:  * Changes to "PBC" when stopping PBC playback.
• MP3/WMA:  • By pressing DISPLAY, you can show the current group and track numbers for a few seconds.	• MP3/WMA: 
• JPEG: 	• JPEG: 

• If Resume is turned "ON" (see page 34), "RESUME" appears when you stop playback (except for Audio CD and MP3/WMA/JPEG discs).

Daily Operations—Playback





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

1 Turn on the power.

The STANDBY/ON lamp on the main unit lights in green.

- Without pressing STANDBY/ON ⏻/I, the System turns on by pressing one of the source selecting buttons in the next step.

2 Select the source.

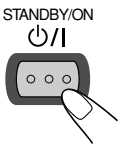
Playback automatically starts if the selected source is ready to start.

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

3 Adjust the volume.

4 Operate the target source as explained later.

To turn off (stand by) the unit



The STANDBY/ON lamp on the main unit lights in red.

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

For private listening

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

- Disconnecting the headphones will activate the speakers again.

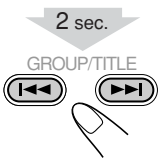
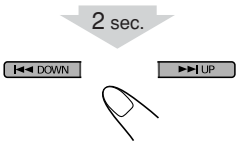
DO NOT turn off (stand by) the System with the volume set to an extremely high level; Otherwise, the sudden blast of sound can damage your hearing, speakers and/or headphones when you turn on the System or start playback.

Listening to the Radio

To select the band (FM or AM)

To tune in to a station

While FM or AM is selected...

Remote control:	Main unit:
	

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 Remote ONLY

The MONO indicator lights on the display. Reception will improve though stereo effect is lost—Monaural reception mode.
To restore the stereo effect, press the button again (the MONO indicator goes off).

To preset the stations Remote ONLY

You can preset 30 FM and 15 AM stations.

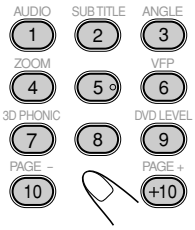
1 **Tune in to a station you want to preset.**

- You can also store the monaural reception mode for FM preset stations if selected.

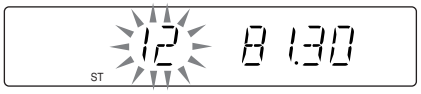
2 **Activate the preset number entry mode.**

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

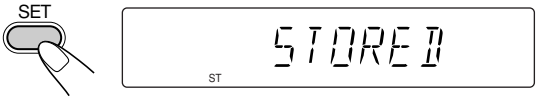
3 **Select a preset number for the station you store.**



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.



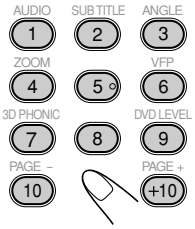
4 **Store the station.**



To tune in to a preset station Remote ONLY

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

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



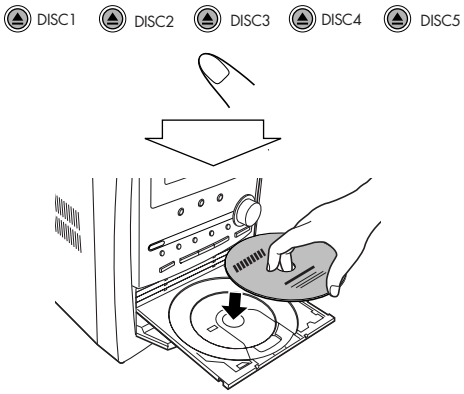
- You can also use the ◄◄/►► button to select a preset station.

Playing Back a Disc

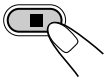
Before operating a disc, be familiar how a disc is recorded.
- DVD Video comprises of "**Titles**" which includes "**Chapters**," DVD Audio/MP3/WMA comprise of "**Groups**" which include "**Tracks**," and CD/SVCD/VCD comprise of only "**Tracks**."
- **For JPEG playback, see "Operations on the CONTROL Screen" on page 27.**

To insert a disc

You can insert a disc while playing another source.



To close the disc tray, press the same ⏏ 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.

To start:	To pause:	To stop:
	To release, press DVD/CD ►.	

- **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 34.)
- 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 34.

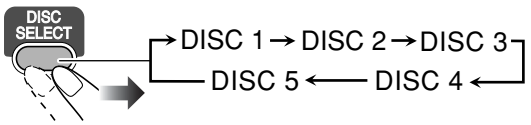
On-screen guide icons

- During DVD Video playback, the following icons may appear on the TV screen:

	At the beginning of a scene containing multi-angle views.
	At the beginning of a scene containing multi-audio sounds.
	At the beginning of a scene containing multi-subtitles.

- The following icons will be also shown on the TV screen to indicate your current operation.

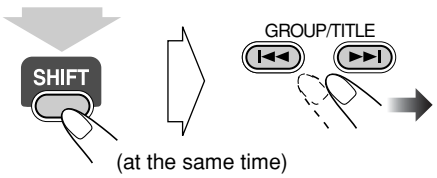
To select a disc



- 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...



- 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.

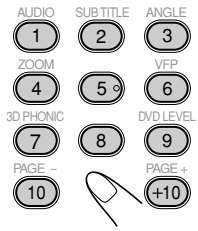
To return to normal playback, press DVD/CD ►.

To locate an item directly

Remote ONLY

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

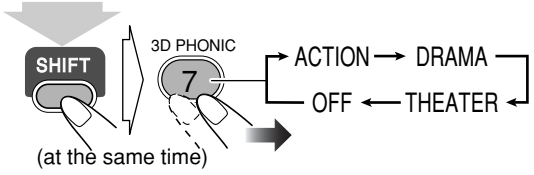
- For DVD Video, you can select **a title before starting playback**, while you can select **a chapter after starting playback**.



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 use 3D Phonic

While playing...



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.

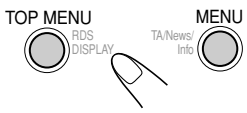
To play back using the disc menu

Remote ONLY

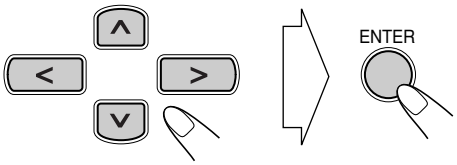
You can operate a disc—DVD and SVCD/VCD with Playback Control (PBC)—using the disc menu shown on the TV screen.

■ For DVD Video/DVD Audio:

1 **Show the disc menu.**



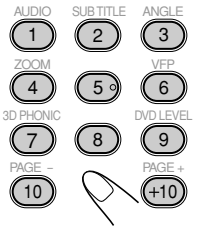
2 **Select an item on the disc menu.**



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

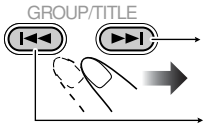
■ For SVCD/VCD with PBC:

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.

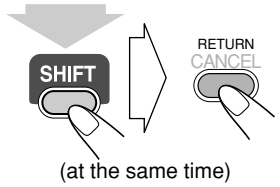


Examples:
To select number 5, press 5.
To select number 15, press +10, then 5.
To select number 30, press +10, +10, then 10.

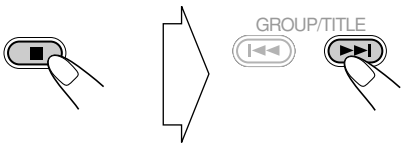
To move to the next or previous page of the current menu:



To return to the previous menu:



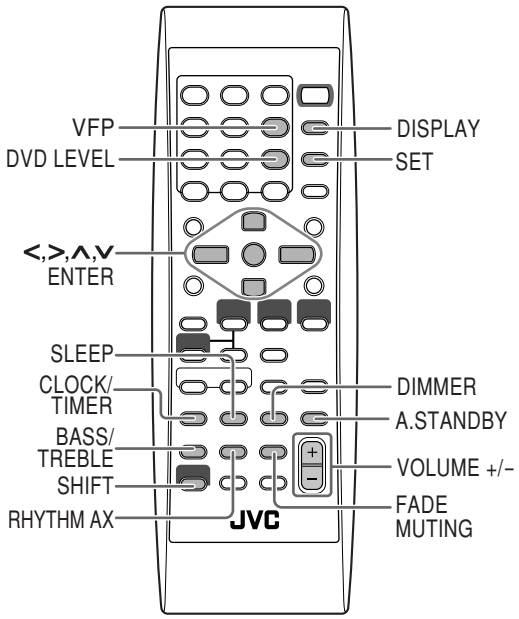
To cancel PBC



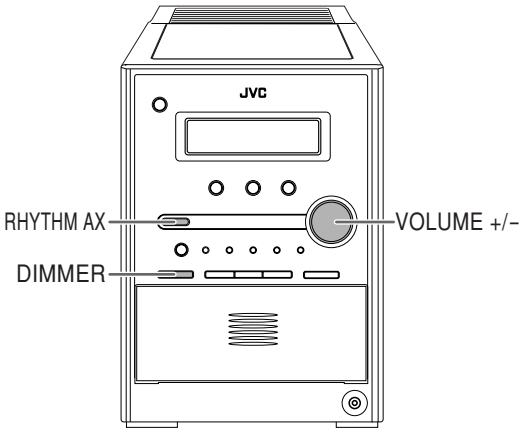
- You can also cancel PBC function by pressing the number button to select a track.

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

Remote control

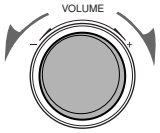


Main unit



Adjusting the Volume

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

Remote control:	Main unit:
	

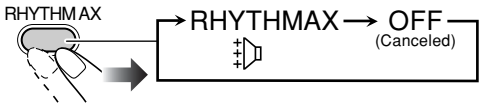
To drop the volume in a moment

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

Adjusting the Sound

To emphasize rhythm feeling—RHYTHM AX

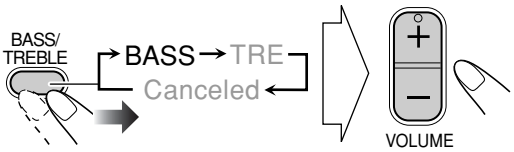
This function emphasizes bass attack feeling.



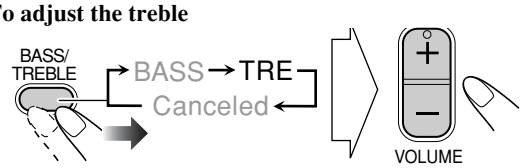
To adjust the tone

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

To adjust the bass

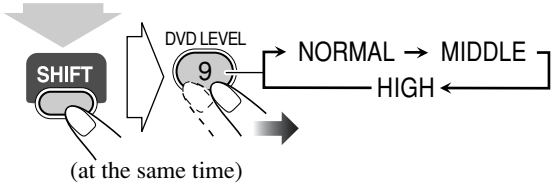


To adjust the treble



Presetting Automatic DVD Sound Increase Level

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.



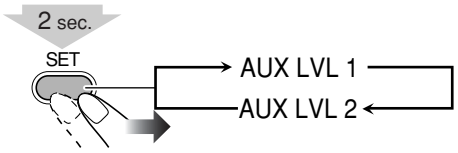
NORMAL	Original recording level.
MIDDLE	Output level is increased (less than "HIGH").
HIGH	Output level is increased (more than "MIDDLE").

• 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).

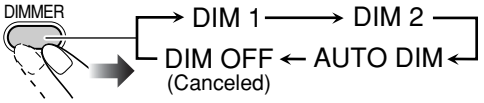
While the "AUX" is selected as a source...



AUX LVL 1	Select this when the sound is too loud (initial setting).
AUX LVL 2	Select this when the sound is not loud enough.

Changing the Display Brightness

You can dim the display window.



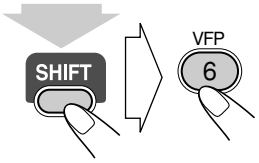
DIM 1	Dims the display.
DIM 2	Erases the display illumination.
AUTO DIM	Erase the display illumination a few seconds after disc playback starts. • The display illuminates when playback stops.

Changing the Picture Tone

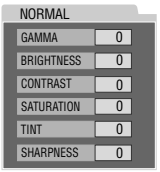
While showing a playback picture on the TV screen, you can select the preset picture tone, or adjust it and store your own likeliness.

To select a preset picture tone

1 **Activate VFP.**

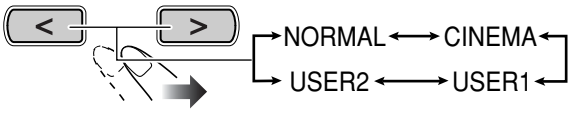


(at the same time)



On the TV screen

2 **Select a preset picture tone.**

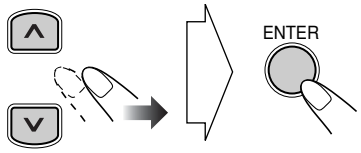


NORMAL	Normally select this.
CINEMA	Suitable for a movie source.
USER1/USER2	You can adjust parameters and can store the settings (see page 16) .

To adjust the picture tone

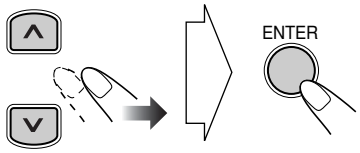
1 Select "USER1" or "USER2."
- Follow steps **1** and **2** explained on page 15.

2 Select a parameter you want to adjust.



GAMMA	Adjust if the neutral color is bright or dark (–3 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.

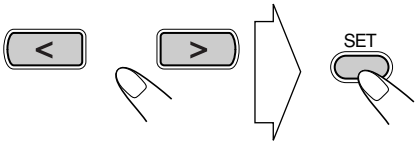
Setting the Clock

Without setting the built-in clock, you cannot use Daily Timers (see page 29) and Sleep Timer.
- To exit from the clock setting, press CLOCK/TIMER as required.
- To go back to the previous step, press CANCEL.

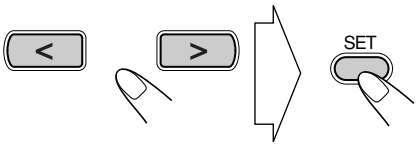
1 Activate the clock setting mode.

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

2 Adjust the hour.

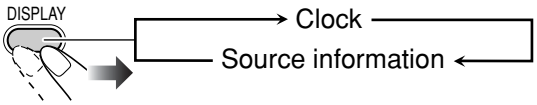


3 Adjust the minute.



Now the built-in clock starts working.

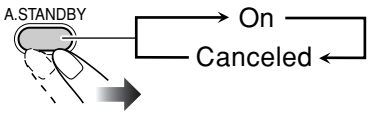
To check the current clock time during play



- While playing a DVD and MP3/WMA, you cannot check the current clock time (see page 9).

Turning Off the Power Automatically

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

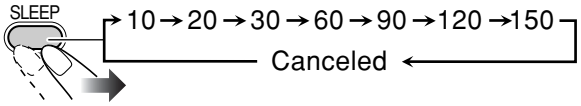


When Auto Standby is in use, the A.STANDBY indicator lights on the display.
When disc play stops, the A.STANDBY indicator starts flashing. If no operation is done for about 3 minutes while the indicator is flashing, the System turns off (stands by) automatically.

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

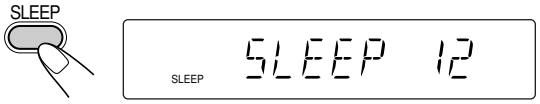
To turn off the unit after a certain period of time —Sleep Timer

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



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

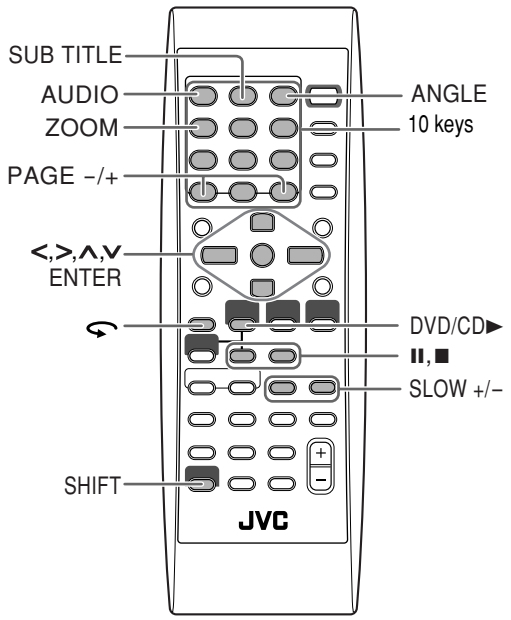
To check the time remaining until the shut-off time



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

Unique DVD/VCD Operations

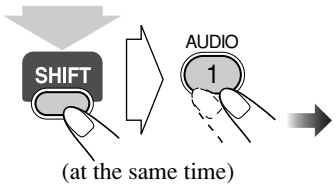
Remote control



Selecting the Sound Track

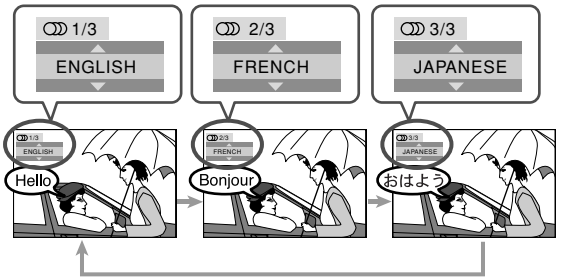
For DVD Video: While playing back a chapter containing audio languages, you can select the language to listen to.
For DVD Audio: While playing back a track containing audio channels, you can select the audio channel to listen to.
For SVCD/VCD: When playing back a track, you can select the audio channel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

• You can also select the audio track using the on-screen bar (see page 24).



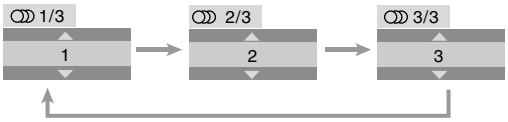
While playing a DVD Video...

Ex.:

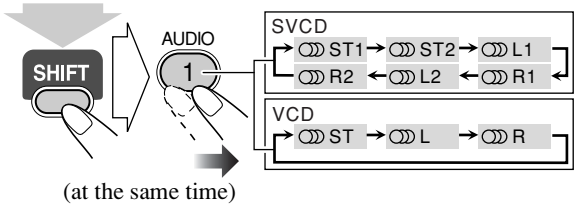


While playing a DVD Audio...

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.

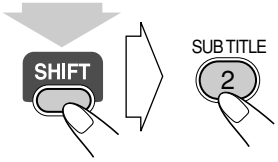
• SVCD can have 4 audio channels. Karaoke SVCD usually uses these 4 channels to record two 2-channel recordings (ST1/ST2).

Selecting the Subtitle Language

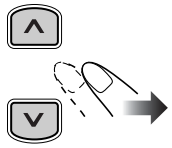
For DVD Video: While playing back a chapter containing subtitles in different languages, you can select the subtitle language to display on the TV screen.
For SVCD: While playing, you can select the subtitles even if no subtitles are recorded on the disc.
• You can also select the subtitle language using the on-screen bar (see page 24).

While playing a DVD Video...

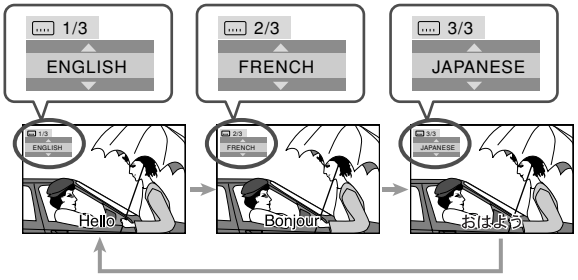
1 **Display the subtitle selection window.**



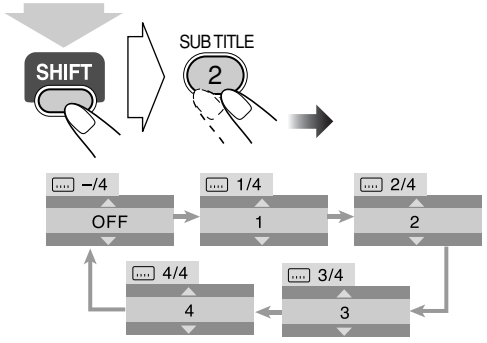
2 **Select the subtitle language.**



Ex.:



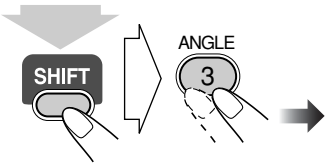
While playing an SVCD...



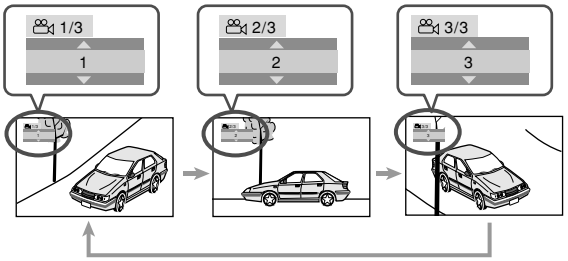
Selecting the View Angle

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 on-screen bar (see page 24).

While playing...



Ex.:

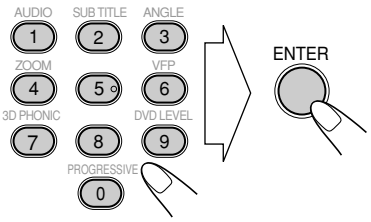


Playing Back a Bonus Group

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 12.

2 **Enter the key number.**



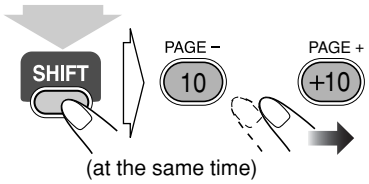
3 **Follow the interactive instructions shown on the TV screen.**

To cancel the key number entry, press ■.

Selecting Browsable Still Pictures

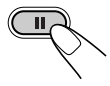
While playing back a track (of DVD Audio) linked to browsable still pictures (BSP), you can select the still picture (turn the page) to be shown on the TV screen.

- 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 24).



Special Effect Playback

Still picture playback

To start still picture playback:	To resume normal playback:
While playing... 	

Frame-by-frame playback

1 While playing...

Still picture playback starts.

2 Advance the still picture frame by frame.

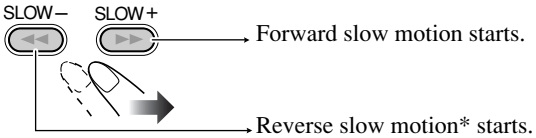
To resume normal playback, press DVD/CD ►.

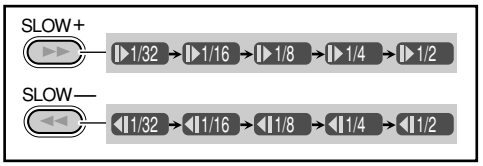
Slow-motion playback

1 While playing...

Still picture playback starts.

2 Select slow motion speed.





*Not available for SVCD/VCD.

To resume normal playback, press DVD/CD ►.

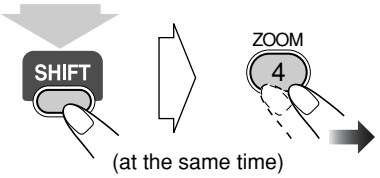
To replay the previous scenes (One touch replay function)

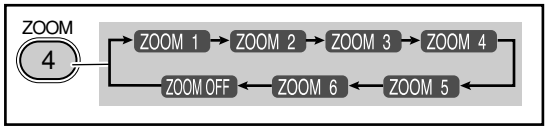
- This function is only used while playing DVD Video.

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

Zoom

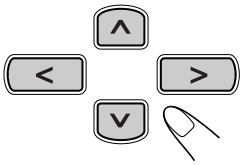
1 While playing back....





As the number increases, magnification also increases.

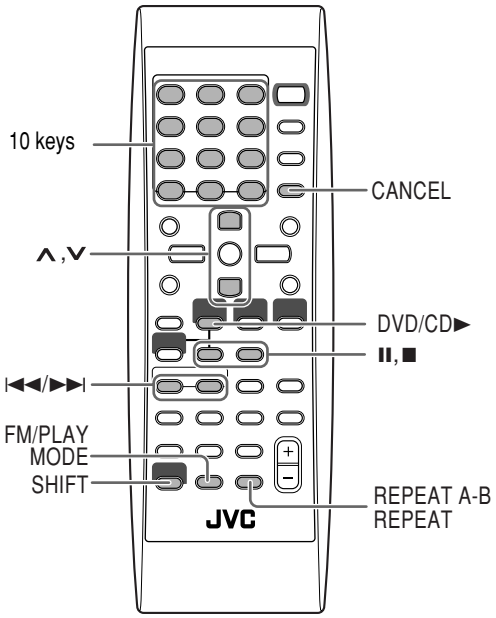
2 Move the zoomed-in position.



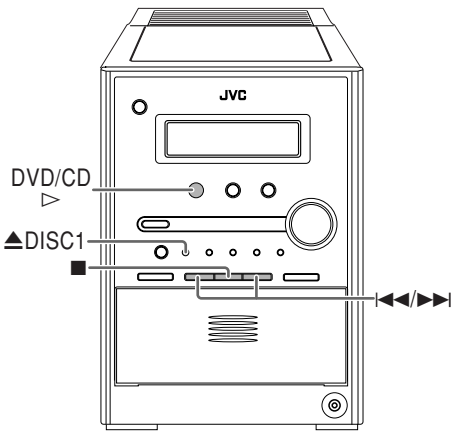
To resume normal playback, press ZOOM repeatedly until "ZOOM OFF" appears on the TV screen.

Advanced Disc Operations

Remote control



Main unit

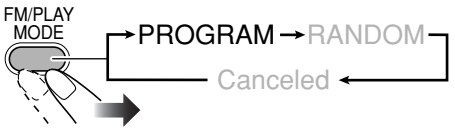


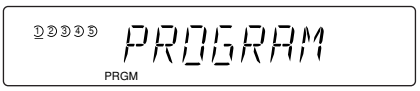
Programming the Playing Order— Program Play

Remote ONLY

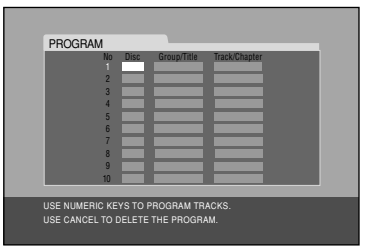
You can arrange the playing order of the chapters or tracks (up to 99) before you start playback.

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





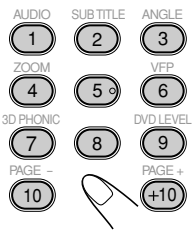
On the display



On the TV screen

2 **Select chapters or tracks you want for Program Play.**

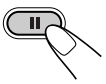
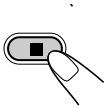
- **For DVD/MP3/WMA:**
  - ① Select a disc number.
  - ② Select a title or group number.
  - ③ Select a chapter or track number.
- **For SVCD/VCD/CD:**
  - ① Select a disc number.
  - ② Select tracks.
- If the disc is not in current tray, the System may prompt for the group number entry as well, however, during playback, the System will ignore these entries.

To enter the numbers:	
	**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*.**

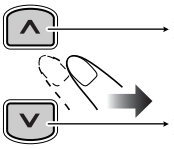
4 Start playback.

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...

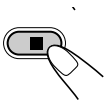


In the reverse order.

In the programmed order.

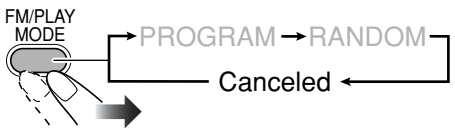
To modify the program

Before or after playback...

To erase the last step:	To erase the entire program:
	
To add steps in the program:	
Repeat steps ***2*** and ***3*** on page 21	

To exit from Program Play

Before or after playback...

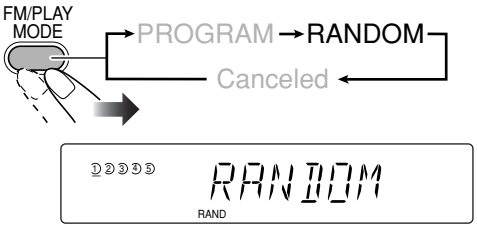


Playing at Random—Random Play

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

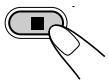
• Random Play cannot be used for some DVDs.

1 Before starting playback, activate Random Play.



2 Start playback.

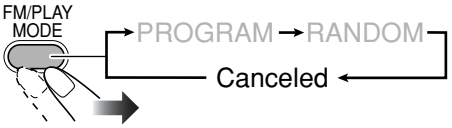
Playback starts in random order. Random Play ends when all the tracks are played once (when Repeat Play is not activated).

To skip a chapter/ track:	To pause:	To stop:
To skip to the beginning of the current track, press ⏮.	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

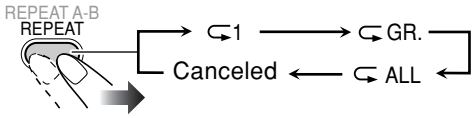
• You can also select the repeat mode using the on-screen bar (see page 25).

Repeat Play

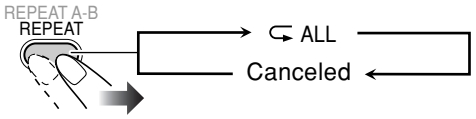
You can repeat playback.

• For DVD Video:

While playing...

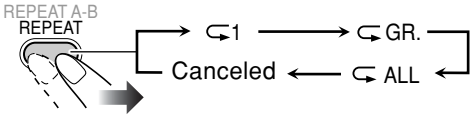


Before starting playback...



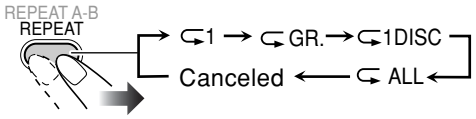
• For DVD Audio:

While playing or before playback...



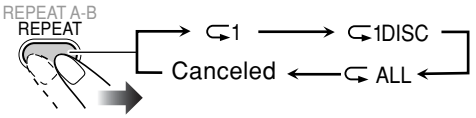
• For MP3/WMA:

While playing or before playback...

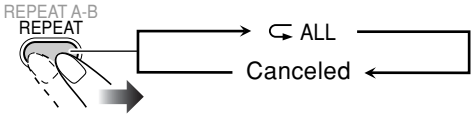


• For CD/SVCD/VCD:

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

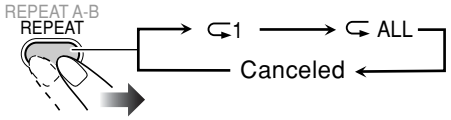


While playing (with PBC for SVCD/VCD) playback...



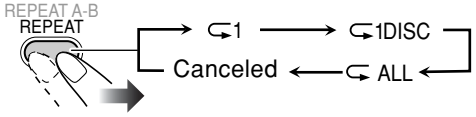
• For Program Play:

While playing or before playback...



• For Random Play:

While playing or before playback...



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

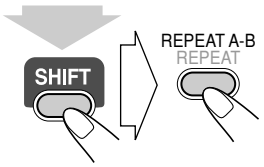
A-B Repeat

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.

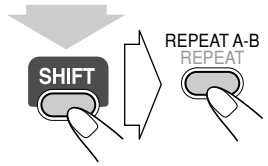
1 While playing (without PBC for SVCD/VCD), select the start point (A).



A- lights on the display.

• A- appears on the TV screen if the TV is turned on.

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.

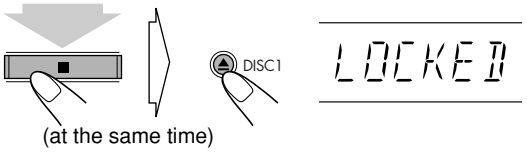
To cancel A-B Repeat, press REPEAT A-B again while holding SHIFT.

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.

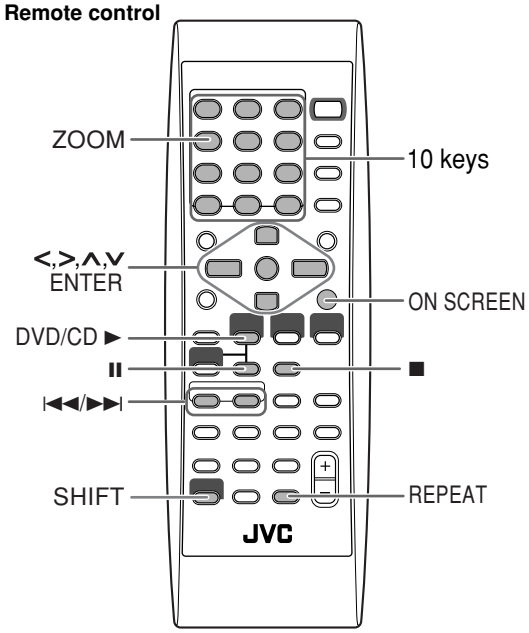
While the disc trays are closed...



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

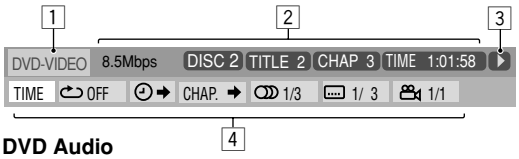
On-Screen Disc Operations

Remote control

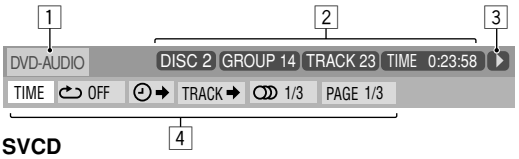


On-screen bars

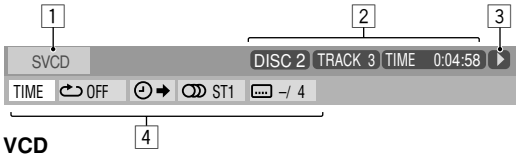
DVD Video



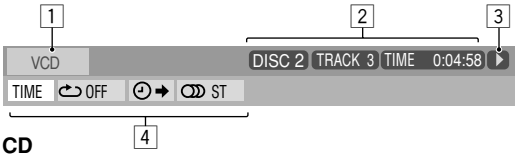
DVD Audio



SVCD



VCD



CD

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

3 **Operation modes**

Indication	Meanings
►	Playback
►► / ◄◄	Forward/Reverse search
►I / I◄	Forward/Reverse slow-motion
II	Pause
■	Stop

4 **Function icons (on the pull-down menu)**

Indication	Meanings
TIME	Select to change the time indication.
OFF	Select to repeat playback.
➔	Select for time search.
CHAP. ➔	Select for chapter search.
TRACK ➔	Select for track search.
1/3	Select to change the audio language or channel (see also page 18).
1/3	Select to change subtitle language (see also page 19).
1/3	Select to change the view angle (see also page 19).
PAGE 1/5	Select to change the page (see also page 20).

Operations Using the On-screen Bar

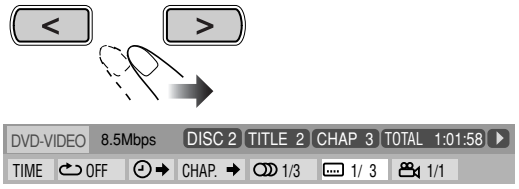
Remote ONLY

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

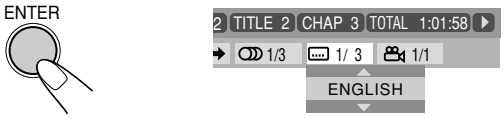
While a disc is selected as the source...

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

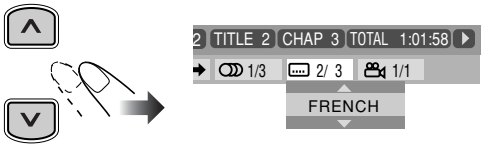
2 Select (highlight) the item you want.



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

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.

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 23.

1 While playing a disc (without PBC for SVCD/VCD), display the on-screen bar with the pull-down menu.

2 Select OFF .

3 Display the pop-up window.

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).
CHAP	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 23.

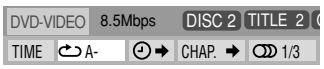
1 While playing, display the on-screen bar with the pull-down menu.

2 Select [OFF].

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.

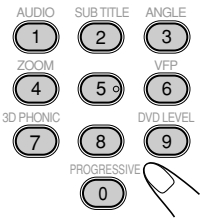
• Except for DVD: Time Search can be used before starting playback.

2 Select [⏲➔].

3 Display the pop-up window.

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.

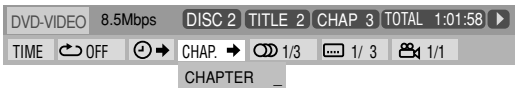
Chapter/Track Search

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

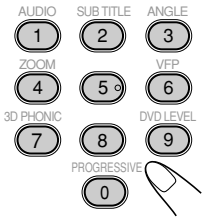
1 While playing, display the on-screen bar with the pull-down menu.

2 Select [CHAP.➔] or [TRACK➔].

3 Display the pop-up window.



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.

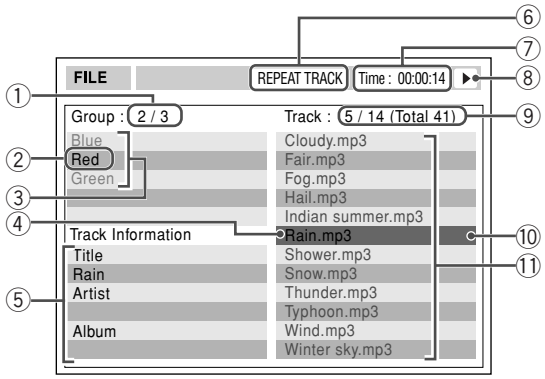
Operations on the CONTROL Screen

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 33).

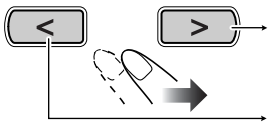
CONTROL screen

Ex.: When the MP3 disc is loaded.



① Current group number/total group number
② Current group
③ Group list
④ Current track (in blue)
⑤ Track information (ID3 Tag Version 1.0: only for MP3/WMA)
⑥ Repeat Play setting
⑦ Elapsed playing time of the current track (only for MP3/WMA)
⑧ Operation mode icon
⑨ Current track number/total number of tracks in the current group (total number of tracks on the loaded disc)
⑩ Highlight (green) bar
⑪ Track list

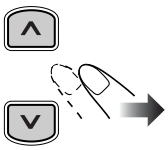
To move the highlight bar between group list and track list



Moves the bar to the track list.

Moves the bar to the group list.

To select a group/track in the list



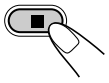
Move the highlight bar to a desired item.

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

To start playback

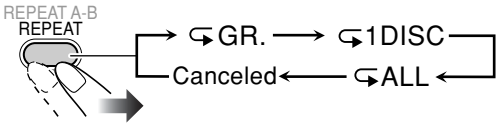
For MP3/WMA:	
	Playback starts with the selected track. • Pressing DVD/CD ► also starts playback.
For JPEG:	
	The selected track (still picture) is displayed until you change it.
	Slide-show playback starts. Each track (still picture) is shown on the screen for few seconds, then changes one after another.

- Once you start playback 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...



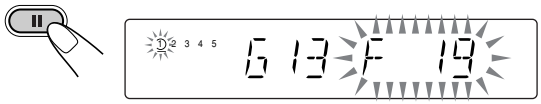
GR.	Repeats the current group.
1DISC	Repeats all disc.
ALL	Repeats the current disc.

• For Repeat Play of MP3/WMA, see page 23.

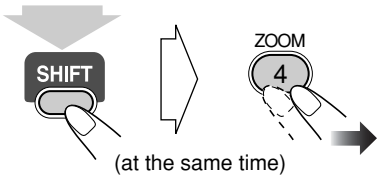
To zoom in the still picture

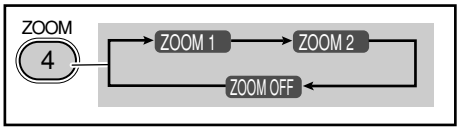
- You cannot zoom in the still picture during slide-show.

1 While playing...



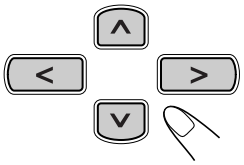
2 Change the magnification.





As the number increases, magnification also increases.

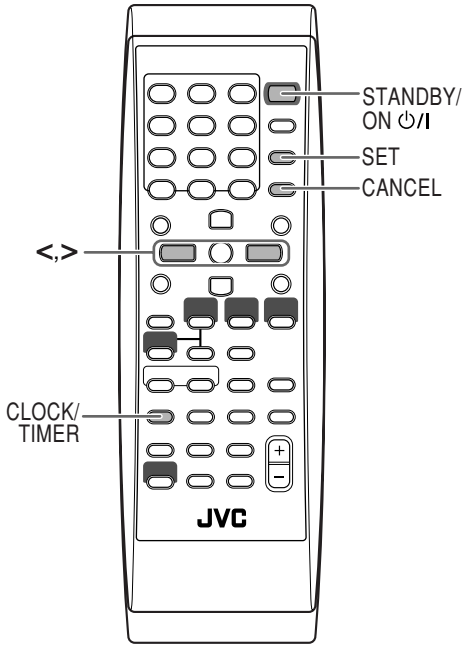
3 Move the zoomed-in position.



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

Timer Operations

Remote control



Setting the Timer

Remote ONLY

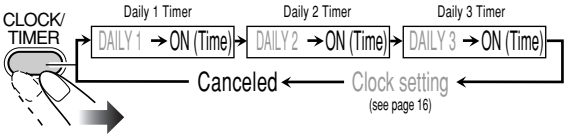
Using Daily Timer, you can wake up with your favorite music.
You can store three Daily Timer settings; however, you can activate only one of the timers at a time.

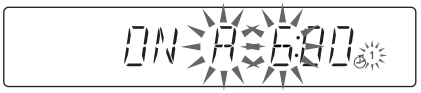
- To exit from the timer setting, press CLOCK/TIMER as required.
- To correct a misentry during the process, press CANCEL. You can return to the previous step.

Daily Timer initial settings when shipped from the factory:

- DAILY 1:ON Time (AM 6:00)/OFF Time (AM 8:00)/ Source (TUNER FM 1)/Volume level (– –)
- DAILY 2:ON Time (PM 12:00)/OFF Time (PM 2:00)/ Source (TUNER FM 1)/Volume level (– –)
- DAILY 3:ON Time (PM 6:00)/OFF Time (PM 8:00)/ Source (TUNER FM 1)/Volume level (– –)

1 Select one of the timer setting modes you want to set—Daily 1 ON time, Daily 2 ON time, or Daily 3 ON time.



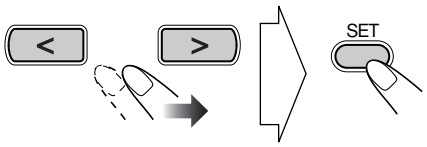


Ex. When Daily Timer 1 setting mode is selected.

- When the clock has not been adjusted, pressing CLOCK/TIMER makes the System enter the clock setting mode.

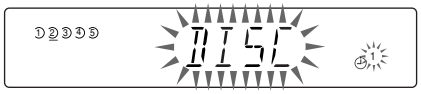
2 Make the timer setting as you want.

Repeat the following operations until you finish setting in the following order—



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

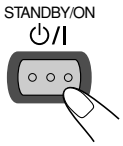
② **Set the hour then the minute for off-time.**
③ **Select the playback source—"TUNER FM," "TUNER AM," "DISC," or "AUX."**



④ **For "TUNER FM" and "TUNER AM": Select a preset channel.**
For "DISC": Select the disc number, title/group number, then the chapter/track number.
⑤ **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.

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 (⏲) 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 (⏲) indicator and timer number indicator (1/2/3) flash on the display.

When the off-time comes

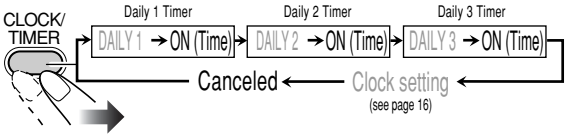
The System stops playback, and turns off (stands by) automatically.

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

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.

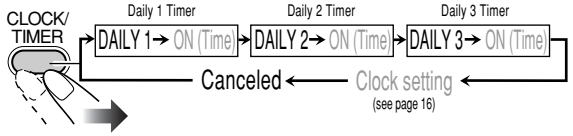


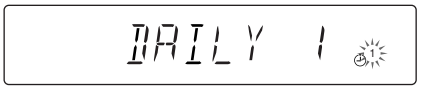
Ex.To cancel Daily Timer 1

2 Turn off the selected Timer.

To turn on the Timer

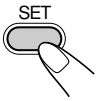
1 Select the Timer (DAILY 1, DAILY 2, or DAILY 3) you want to activate.





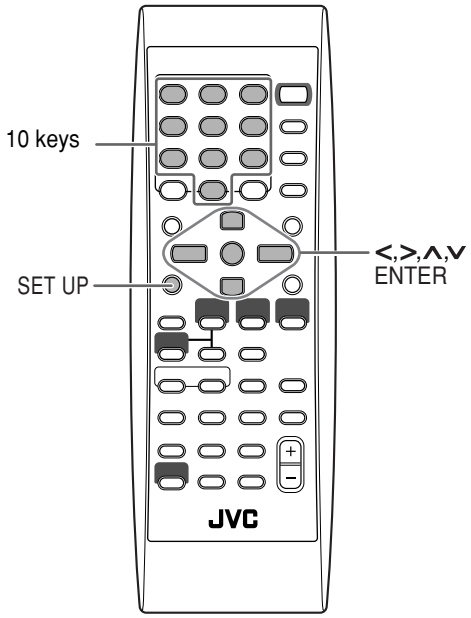
Ex.When Daily Timer 1 is selected.

2 Activate the selected Timer.



Setup Menu Operations

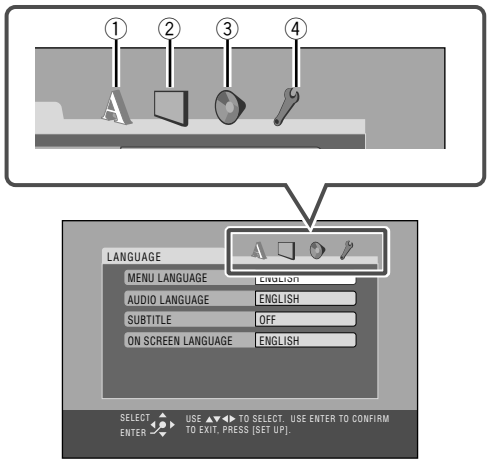
Remote control



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

Remote ONLY

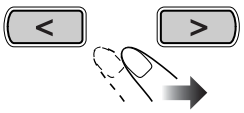
You can use the Setup Menus only when a disc is selected as the source and its playback is not yet started.

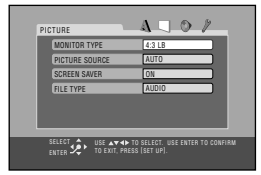
Ex.: Selecting “STILL PICTURE” for “FILE TYPE”:

1 Display the Setup Menu.

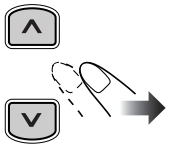
SET UP

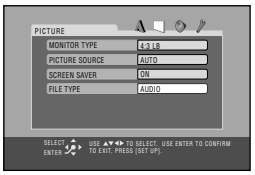
2 Select one of the Setup Menus.





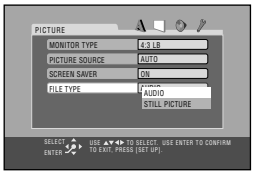
3 Select the item you want to adjust.



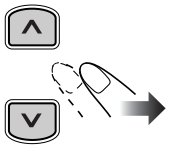


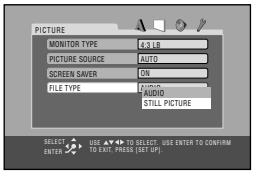
4 Display the pop-up window.

ENTER



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





6 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.

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 41).

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 41).

SUBTITLE

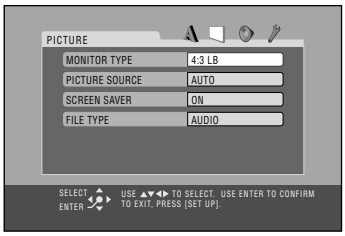
Some discs have multiple subtitle languages.
Select from—ENGLISH, SPANISH, FRENCH, CHINESE, GERMAN, ITALIAN, JAPANESE, AA – ZU (see "Language Code List" on page 41) or "OFF (no subtitle)."

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.



MONITOR TYPE

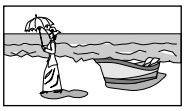
Select the monitor type of your TV to play DVD Video recorded with aspect ratio of 16:9.

Select one of the following:

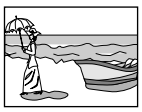
16:9:
Select when the aspect ratio of your TV is 16:9 and when the TV has the screen size adjustment function.

4:3 LB (Letter Box):
Select when the aspect ratio of your TV is 4:3 (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):
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

Ex.: 4:3 LB


Ex: 4:3 PS

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 43.

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 SURROUND:	To connect an amplifier with the Dolby 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.

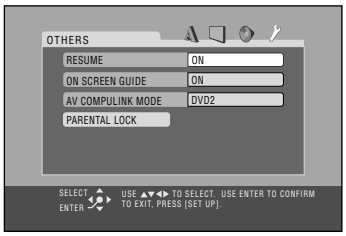
• The effectiveness varies depends on a software.

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 12).

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 12).

• 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 6.

PARENTAL LOCK

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

Restricting the Review —Parental Lock

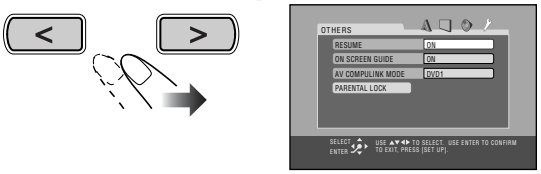
You can restrict playback of DVD Video containing violent scenes and those unsuitable for your family members. Once you have set the rating level, such violent scenes (for which a higher level than you set is assigned) may be skipped or changed to another scene (depending on how the disc is programmed).

To set Parental Lock

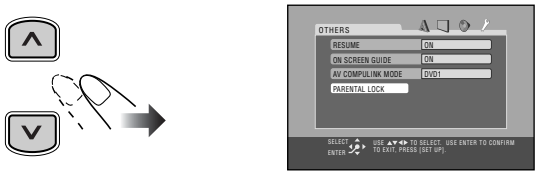
Set the rating level—Level 1 (most restrictive) to Level 8 (least restrictive).

1 Display the Setup Menu.

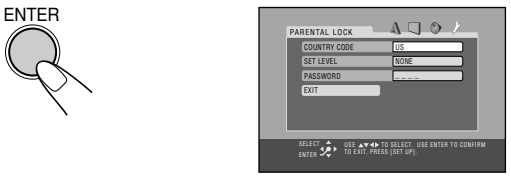
2 Select the OTHERS Setup Menus.



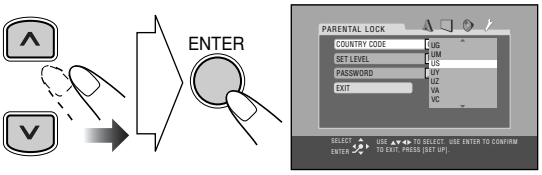
3 Select "PARENTAL LOCK."



4 Enter the PARENTAL LOCK submenu.

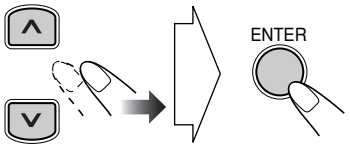


5 Select "COUNTRY CODE," then display the pop-up window.

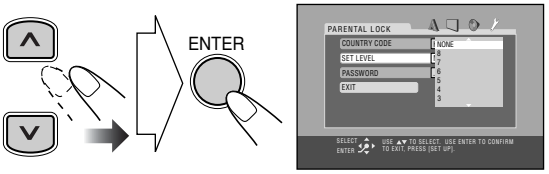


6 Select the country code of your area.

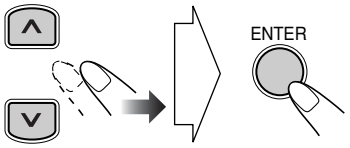
• See "Country/Area Codes List" on page 42 to find your country code.



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

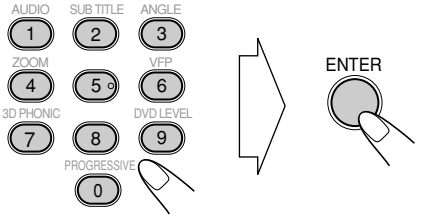


8 Set the rating level (NONE, 8 – 1).



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.

To change the setting

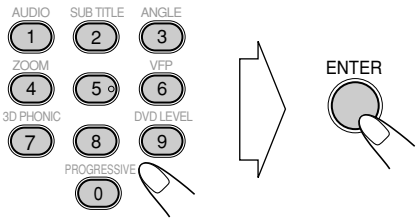
1 Display the PARENTAL LOCK sub menu.

• 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.

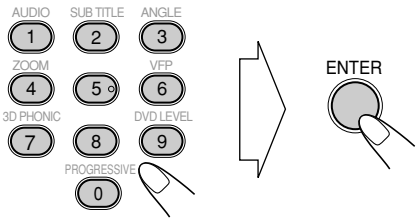
• If you enter a wrong password three times, “EXIT” is automatically selected. In this case, press ENTER to exit from the PARENTAL LOCK submenu.

• If you forget your password, enter “8888.”

3 Change the settings.

• Follow steps **5** to **8** of “To set Parental Lock”.

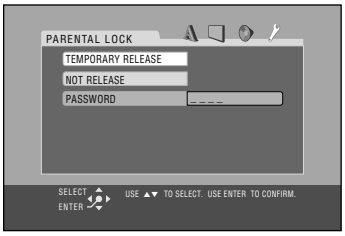
4 Enter your password again.



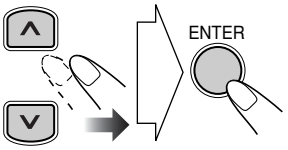
• If you want to change a password, enter a new four digit number in this step.

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.



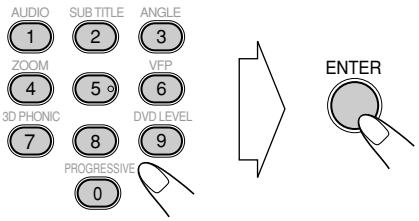
1 Select “TEMPORARY RELEASE,” then ENTER.



“PASSWORD” is automatically selected.

• If you do not to play back such a disc, select “NOT RELEASE,” then ENTER. Then eject the disc.

2 Enter your password.



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

Additional Information

Learning More about This System

Getting Started (see pages 3 to 6)

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 10 to 13)

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.
• 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 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 14 to 17)

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:

• "AM 12:00" 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 18 to 20)

• During slow-motion playback, no sound will be reproduced.
• One touch replay function works only within the same title, though it works between chapters.
• While zoomed in, the picture may look coarse.

Advanced Disc Operations (see pages 21 to 23)

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 24 to 28)

- 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.

Timer Operations (see pages 29 to 30)

- 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.
- If you set the Sleep Timer after Daily Timer starts playing the selected source, Daily Timer is canceled.

Setup Menu Operations (see pages 31 to 36)

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—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—DOWN MIX:

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

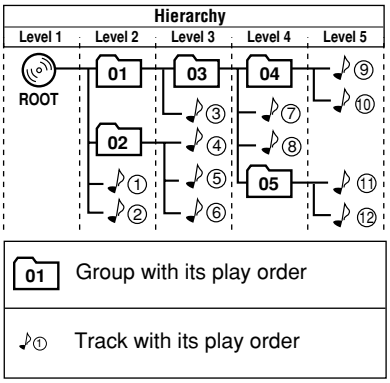
OTHERS—ON SCREEN GUIDE:

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.

MP3/WMA/JPEG groups/tracks configuration

This System plays back the tracks as follows.



Maintenance

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

Handling discs

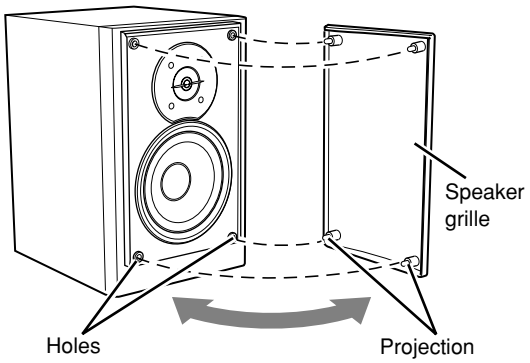
- When removing the disc from its case, hold it at the edge while pressing the center hole lightly.
- Do not touch the shiny surface of the disc, or bend the disc.
- Put the disc back in its case after use to prevent warping.
- Be careful not to scratch the surface of the disc.
- Avoid exposure to direct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

To clean the disc:
Wipe the disc with a soft cloth in a straight line from center to edge.

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 water-diluted 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.
⇨ 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.
⇨ The batteries are exhausted.

No sound is heard.
⇨ Speaker connections are incorrect or loose.
⇨ Headphones are connected.

No picture appears on the screen.
⇨ 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.
⇨ Select "4:3 LB" for "MONITOR TYPE" (see page 32).

Radio Operations:

Hard to listen to broadcasts because of noise.
⇨ Antennas connections are incorrect or loose.
⇨ 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 33).
⇨ 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.
⇨ The disc is scratched or dirty.

The disc tray does not open or close.
⇨ The AC power cord is not plugged in.
⇨ Child Lock is in use (see page 23).

Timer Operations:

"CLOCK ADJUST" appears when you press DAILY TIMER on the main unit.
⇨ The built-in clock has not yet been set.

Daily Timer does not work.
⇨ The System has been turned on when the on-time comes. Timer starts working only when the System is turned off.

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 19).

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 18).

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
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
JW	Javanese
KA	Georgian
KK	Kazakh
KL	Greenlandic
KM	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
MO	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
PT	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
TH	Thai
TI	Tigrinya
TK	Turkmen
TL	Tagalog
TN	Setswana
TO	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
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
AN	Netherlands Antilles
AO	Angola
AQ	Antarctica
AR	Argentina
AS	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AZ	Azerbaijan
BA	Bosnia and Herzegovina
BB	Barbados
BD	Bangladesh
BE	Belgium
BF	Burkina Faso
BG	Bulgaria
BH	Bahrain
BI	Burundi
BJ	Benin
BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia
BR	Brazil
BS	Bahamas
BT	Bhutan
BV	Bouvet Island
BW	Botswana
BY	Belarus
BZ	Belize
CA	Canada
CC	Cocos (Keeling) Islands
CF	Central African Republic
CG	Congo
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
DE	Germany
DJ	Djibouti
DK	Denmark
DM	Dominica
DO	Dominican Republic
DZ	Algeria
EC	Ecuador
EE	Estonia
EG	Egypt
EH	Western Sahara
ER	Eritrea
ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands (Malvinas)
FM	Micronesia (Federated States of)
FO	Faroe Islands
FR	France
FX	France, Metropolitan
GA	Gabon
GB	United Kingdom
GD	Grenada
GE	Georgia
GF	French Guiana
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe
GQ	Equatorial Guinea
GR	Greece
GS	South Georgia and the South 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
IO	British Indian Ocean Territory
IQ	Iraq
IR	Iran (Islamic Republic of)
IS	Iceland
IT	Italy
JM	Jamaica
JO	Jordan
JP	Japan
KE	Kenya
KG	Kyrgyzstan
KH	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
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
OM	Oman
PA	Panama
PE	Peru
PF	French Polynesia
PG	Papua New Guinea
PH	Philippines
PK	Pakistan
PL	Poland
PM	Saint Pierre and Miquelon
PN	Pitcairn
PR	Puerto Rico
PT	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
TM	Turkmenistan
TN	Tunisia
TO	Tonga
TP	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

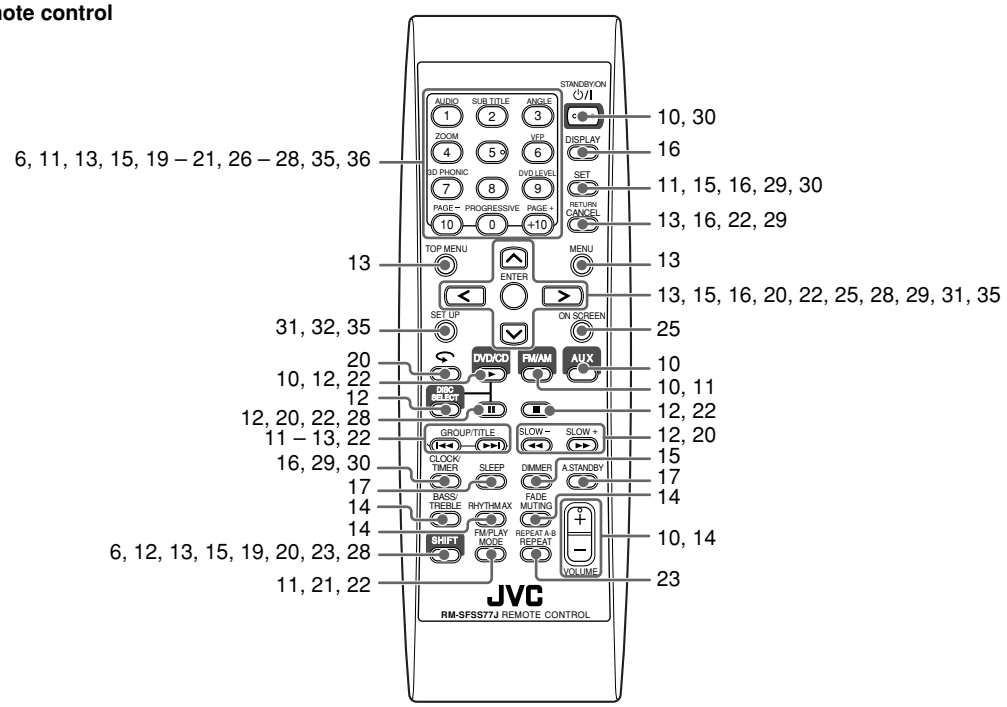
DIGITAL AUDIO OUT / **Playback disc**	**Output Signals**		
	STREAM/PCM	**DOLBY DIGITAL/PCM**	**PCM ONLY**
DVD Video with 48 kHz, 16/20/24 bit Linear PCM	48 kHz, 16 bit Linear PCM*		
with 96 kHz, Linear PCM	48 kHz, 16 bit Linear PCM		
with Dolby Digital	Dolby Digital bitstream		48 kHz, 16 bit Linear PCM
with DTS	DTS bitstream	48 kHz, 16 bit Linear PCM	
DVD Audio with 48/96/192 kHz, 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		
with Dolby Digital	Dolby Digital bitstream		48 kHz, 16 bit Linear PCM
with DTS	DTS bitstream	48 kHz, 16 bit 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 bit 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.

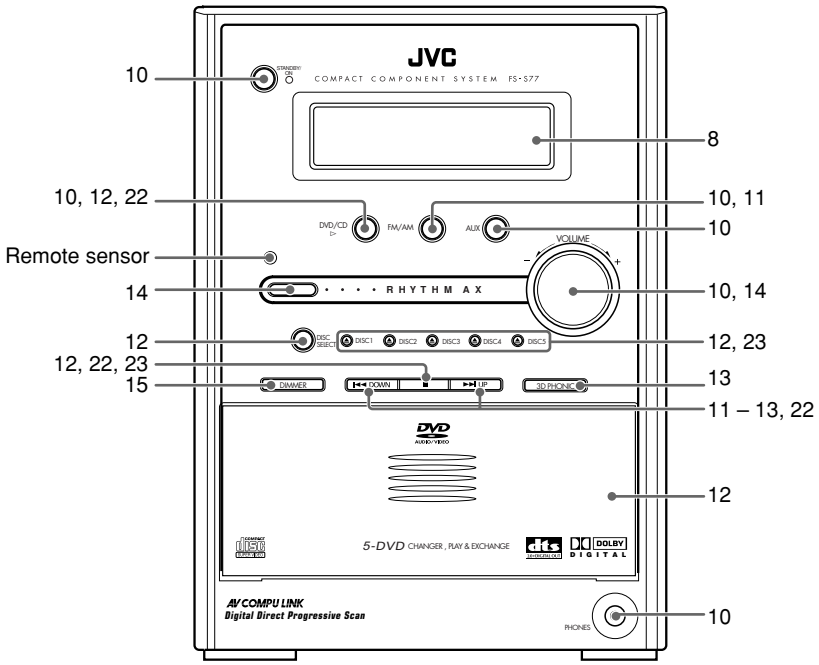
Parts Index

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

Remote control



Main unit



Specifications

Amplifier section

Output Power:

LOW: 25 W per channel, min. RMS, driven into 4 Ω at 1 kHz with no more than 10% total harmonic distortion.

HIGH: 25 W per channel, min. RMS, driven into 4 Ω at 10 kHz with no more than 10% total harmonic distortion.

Analog input:

AUX: Sensitivity/Impedance (at 1 kHz)
400 mV/47 kΩ (at "AUX LEVEL 1")
200 mV/47 kΩ (at "AUX LEVEL 2")

Digital output:

DVD OPTICAL DIGITAL OUT:
–21 dBm to –15 dBm (660 nm ±30 nm)

VIDEO OUT:

Color system: NTSC

VIDEO (composite):	1 V(p-p)/75 Ω
S-VIDEO: Y (luminance)	1 V(p-p)/75 Ω
C (chrominance, burst)	0.286 V(p-p)/75 Ω
COMPONENT:(Y)	1 V(p-p)/75 Ω
(P_B/P_R)	0.7 V(p-p)/75 Ω
Speaker Terminals:	4Ω – 16 Ω

Others:

AV COMPU LINK x 2 (ϕ 3.5)

Tuner section

FM tuning range:	87.5 MHz – 108.0 MHz
AM tuning range:	530 kHz – 1 710 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

General

Power requirement:	AC 120 V ~ 60 Hz
Power consumption:	85 W (at operation) 15 W (on standby) 2.0 W (with deactivating the clock indication)
Dimensions (approx.):	175 mm x 237 mm x 375 mm (W/H/D) ($6^{15}/_{16}$ in.x $9^{3}/_{8}$ in.x$14^{13}/_{16}$ in.)
Mass (approx.):	6.5 kg (14.4 lbs)

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: 4 Ω LOW: 4 Ω
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) ($5^{3}/_{4}$ in.x $9^{5}/_{16}$ in.x$8^{1}/_{8}$ in.)
Mass (approx.):	2.3 kg (5.1 lbs) each

Design and specifications are subject to change without notice.

JVC

LIMITED WARRANTY

AUDIO-1

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

PARTS	LABOR
1 YR	**1 YR**

THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN COMMONWEALTH OF PUERTO RICO.

WHAT WE WILL DO:
If this product is found to be defective, JVC will repair or replace defective parts at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products and parts thereof may be brought to a JVC authorized service center on a carry-in basis except for Television sets having a screen size 25 inches and above which are covered on an in-home basis.

WHAT YOU MUST DO FOR WARRANTY SERVICE:
Return your product to a JVC authorized service center with a copy of your bill of sale. For your nearest JVC authorized service center, please call toll free: (800) 537-5722.

If service is not available locally, box the product carefully, preferably in the original carton, and ship, insured, with a copy of your bill of sale plus a letter of explanation of the problem to the nearest JVC Factory Service Center, the name and location of which will be given to you by the toll-free number.

If you have any questions concerning your JVC Product, please contact our Customer Relations Department.

WHAT IS NOT COVERED:
This limited warranty provided by JVC does not cover:

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

There are no express warranties except as listed above.

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

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

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

JVC COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.
1700 Valley Road
Wayne, NJ 07470

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

For customer use:

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

Model No. : _____ Serial No. : _____

Purchase data : _____ Name of dealer : _____

Authorized Service Centers

QUALITY JVC® SERVICE

HOW TO LOCATE YOUR JVC SERVICE CENTER

TOLL FREE: 1 (800) 537-5722

http://www.jvc.com

Dear Customer,

In order to receive the most satisfaction from your purchase, please read the instruction booklet before operating the unit.In the event that repairs are necessary, please call 1 (800)537-5722 for your nearest authorized servicer or visit our website at **www.JVC.com**

Remember to retain your Bill of Sale for Warranty Service.

Do not service the television yourself

Caution

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

Accessories

To purchase accessories for your JVC product, please call toll free:1 (800)882-2345 or on the web at **www.JVC.com**

BT-51001-5
(0301)

FS-S77B/S77S | COMPACT COMPONENT SYSTEM

JVC

VICTOR COMPANY OF JAPAN, LIMITED

EN

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0204AIMMDWJEM

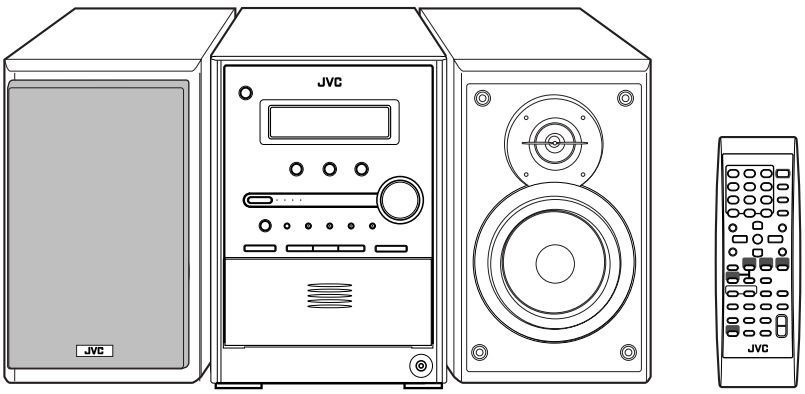
JVC

English

Français

COMPACT COMPONENT SYSTEM
SYSTEME DE COMPOSANTS COMPACT

FS-S77B—Consists of CA-FSS77 and SP-UXS77B



COMPACT disc SUPER VIDEO

dts 2.0+DIGITAL OUT™

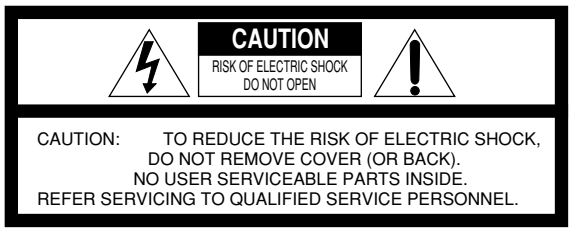
DOLBY DIGITAL

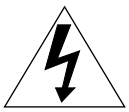
DVD AUDIO/VIDEO™

3D-PHONIC

INSTRUCTIONS
MANUEL D'INSTRUCTIONS

GVT0131-002A
[C]





The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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

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.

ATTENTION

Afin d'éviter tout risque d'électrocution, d'incendie, etc.:

1 Ne pas enlever les vis ni les panneaux et ne pas ouvrir le coffret de l'appareil.
2 Ne pas exposer l'appareil à la pluie ni à l'humidité.

CAUTION—STANDBY/ON ⏻/I button!
Disconnect the mains plug to shut the power off completely (all lamps and indications go off). The STANDBY/ON ⏻/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.

Attention—Touche STANDBY/ON ⏻/I (attente/sous tension)!
Déconnectez la fiche secteur pour mettre l'appareil complètement hors tension (tous les témoins et toutes les indications s'éteignent). La touche STANDBY/ON ⏻/I dans n'importe quelle position ne déconnecte pas l'appareil du secteur.

- Quand l'appareil est en mode d'attente, le témoin STANDBY/ON est allumé en rouge.
- Quand l'appareil est sous tension, le témoin STANDBY/ON est allumé en vert.

L'alimentation ne peut pas être commandée à distance.

For U.S.A.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

For Canada/pour le Canada

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQUAU FOND.

Note to CATV system installer:

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

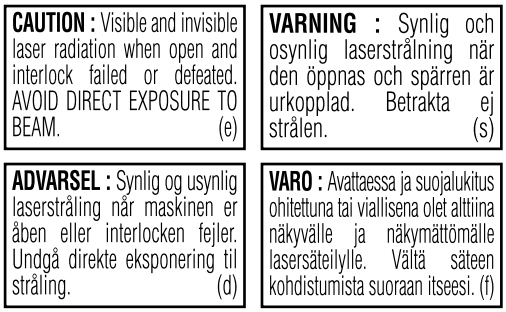
For Canada/pour le Canada

THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS B LIMITS FOR RADIO NOISE EMISSIONS FROM DIGITAL APPARATUS AS SET OUT IN THE INTERFERENCE-CAUSING EQUIPMENT STANDARD ENTITLED "DIGITAL APPARATUS," ICES-003 OF THE DEPARTMENT OF COMMUNICATIONS.

CET APPAREIL NUMERIQUE RESPECTE LES LIMITES DE BRUITS RADIOELECTRIQUES APPLICABLES AUX APPAREILS NUMIRIQUES DE CLASSE B PRESCRITES DANS LA NORME SUR LE MATERIEL BROUILLEUR: "APPAREILS NUMERIQUES", NMB-003 EDICTEE PAR LE MINISTRE DES COMMUNICATIONS.

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.

1 PRODUIT LASER CLASSE 1
2 **ATTENTION**: N'ouvrez pas le couvercle supérieur. Il n'y a aucune pièce réparable par l'utilisateur à l'intérieur de l'appareil; confiez toute réparation à un personnel qualifié.
3 **ATTENTION**: Risque de radiations laser visible et invisible quand l'appareil est ouvert ou que le systéme de verrouillage ne fonctionne pas ou a été mis hors service. Évitez toute exposition directe au rayon.
4 REPRODUCTION DE L'ÉTIQUETTE: ÉTIQUETTE DE PRÉCAUTION PLACÉE L'INTERIEUR DE L'APPAREIL.



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English

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.

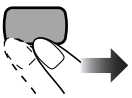
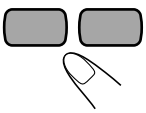
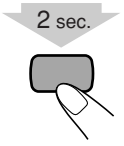
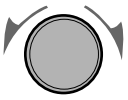
- If you are not going to operate the System for an extended period of time, unplug the AC power cord from the wall outlet.

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 easy-to-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.

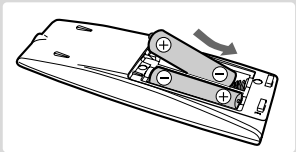
	Indicates that you press the button **briefly**.
	Indicates that you press the button **briefly and repeatedly** until an option you want is selected.
	Indicates that you press one of the buttons.
	Indicates that you **press and hold** the button for a specified period. • The number inside the arrow indicates the period of press (in this example, 2 seconds). • If no number is inside the arrow, press and hold until the entire procedure is complete or until you get a result you want.
	Indicates that you turn the control toward the specified direction(s).

	Indicates that this operation is only possible using the remote control.
	Indicates that this operation is only possible using the buttons and controls on the main unit.

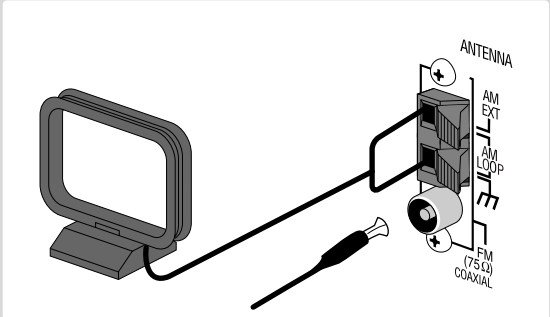
Getting Started

Step *1*: Unpack the package and check the accessories.

Step *2*: Prepare the remote control.



Step *3*: Hook up the components such as AM/FM antennas, speakers, etc. (see pages 4 to 6).



Finally plug the AC power cord.

Now you can operate the System.

Step *1*: Unpack

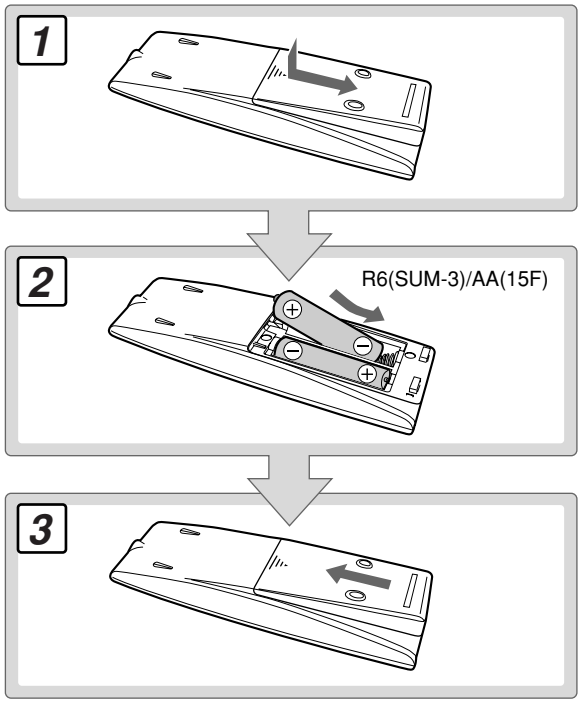
After unpacking, check to be sure that you have all the following items. The number in parentheses indicates the quantity of each piece supplied.

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

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.



STOP!

- 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.

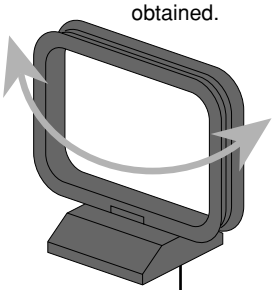
Step 3: Hook Up

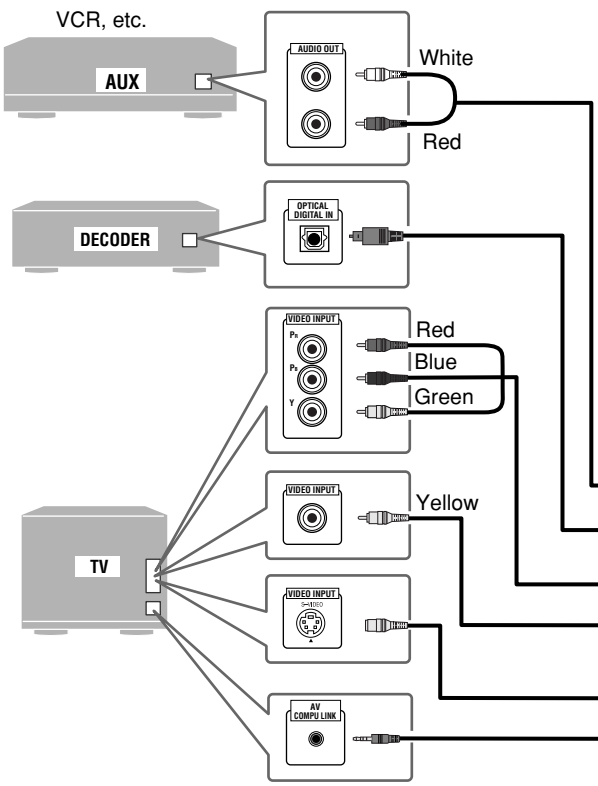
If you need more detailed information, see page 6.

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.





Audio cord (not supplied)

Optical digital cord (not supplied)

Component video cord (not supplied)

Composite video cord (supplied)

S-VIDEO cord (not supplied)

AV COMPU LINK cord (not supplied)
(cord with monaural mini plug)
• For details, see "To connect the AV COMPU LINK cords" on page 6.

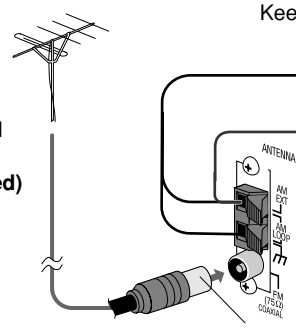
To a wall outlet
Plug the AC power cord only after all connections are complete.

For better FM/AM reception

AM loop antenna
Keep it connected.

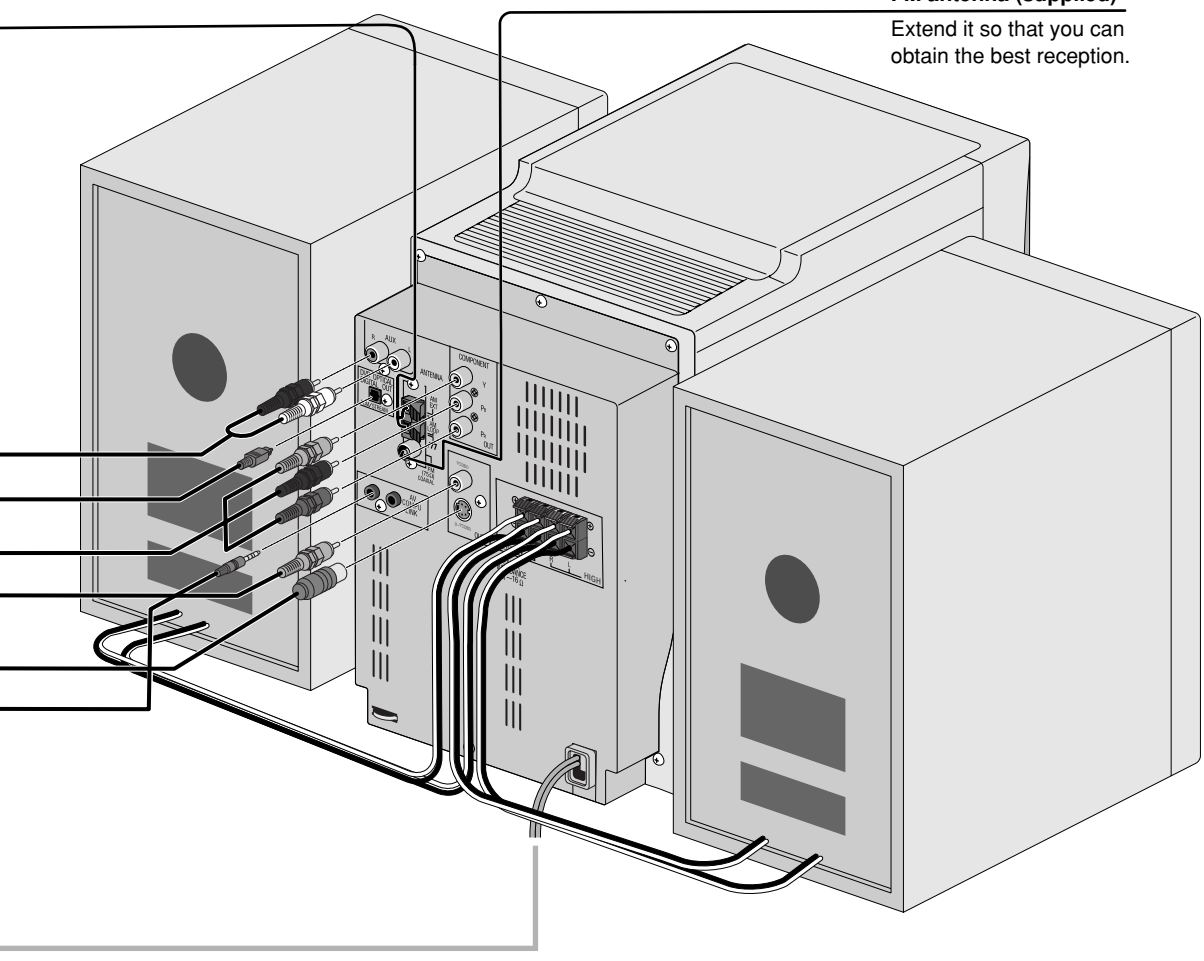
Outdoor FM antenna (not supplied)

Vynile-covered wire (not supplied)
Extend it horizontally.



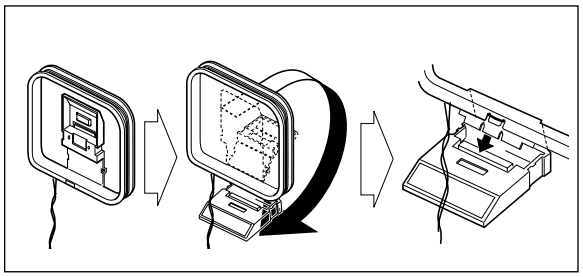
Disconnect the supplied FM antenna, and connect to an outdoor FM antenna using a 75 Ω wire with coaxial type connector (IEC or DIN45325).

FM antenna (supplied)
Extend it so that you can obtain the best reception.

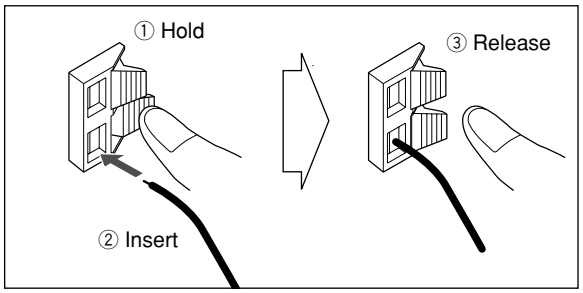


To assemble and connect the AM loop antenna

To assemble the AM loop antenna



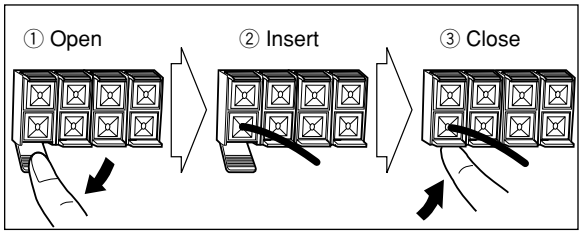
To connect the AM loop antenna



- 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 (–).

STOP!

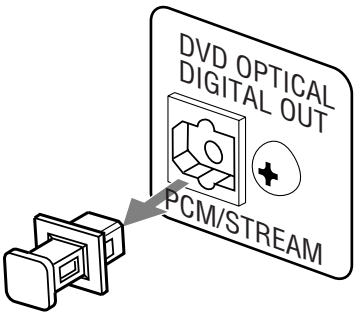
- DO NOT connect more than one speaker to each terminal.
- DO NOT allow the conductor of the speaker cords to be in touch with the metallic parts of the System.

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



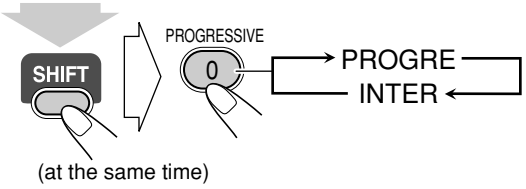
Before connecting optical digital cord, remove the protective cap from the DVD OPTICAL DIGITAL OUT terminal.

Changing the Scanning Mode

Remote ONLY

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	1 or ALL
DVD Audio			
Video CD (VCD)			——
Super Video CD (SVCD)			——
Audio CD		——	——
CD-R	The System can play back CD-R or CD-RW recorded in the Audio CD, Video CD, SVCD, MP3, WMA, and JPEG formats.		
CD-RW			
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 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...

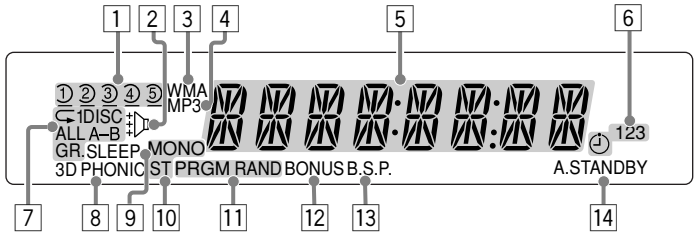
- Turn on the TV and select an appropriate input mode on the TV to view the pictures or on-screen displays on the TV screen.
- For disc playback, you can change the initial setting to your preference. See “Setup Menu Operations” on page 31.

If “ ⃠ ” 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.

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.
  – Blinking while playing back a disc.
  – Goes off when there is no disc in the tray.
- ⊃ (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 14).

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 "AUX": "AUX" appears.
- While playing a disc: see "Indications on the main display while operating a disc" on page 9.

6 Timer indicators
- ◴ : lights when Daily 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.

7 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.

8 3D PHONIC indicator
- Lights when 3D PHONIC is activated (see page 13).

9 SLEEP indicator
- Lights when the Sleep Timer is activated.

10 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.

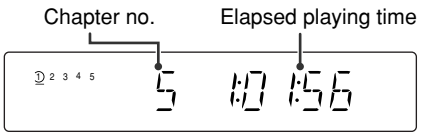
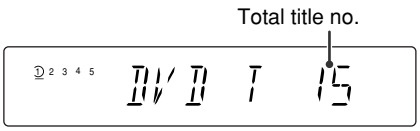
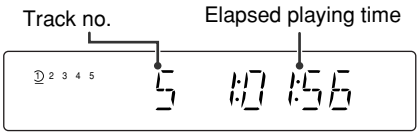
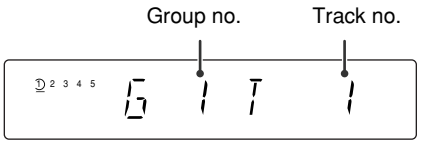
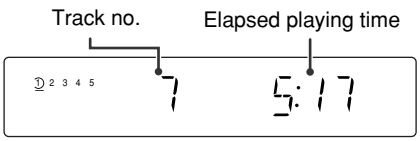
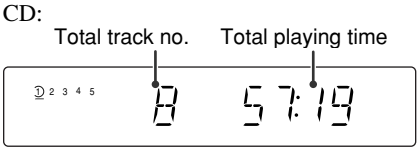
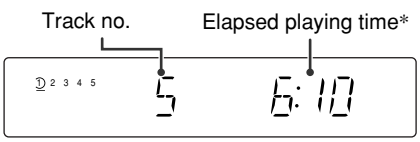
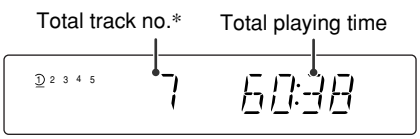
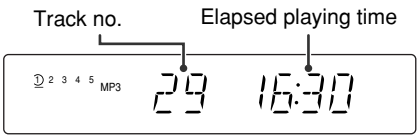
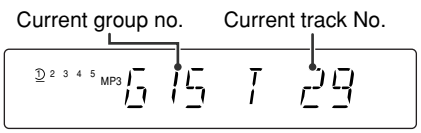
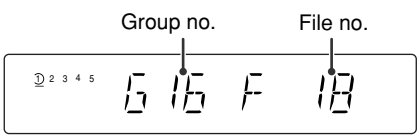
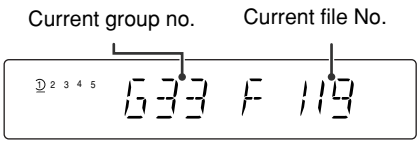
11 Disc operation indicators
- PRGM (program): lights when Program Play mode is activated.
- RAND (random): lights when Random Play mode is activated.

12 BONUS indicator
- Lights when a DVD Audio with a bonus group is detected (see page 19).

13 B.S.P. indicator
- Lights when the current disc is DVD Audio with browsable still picture (see page 20).

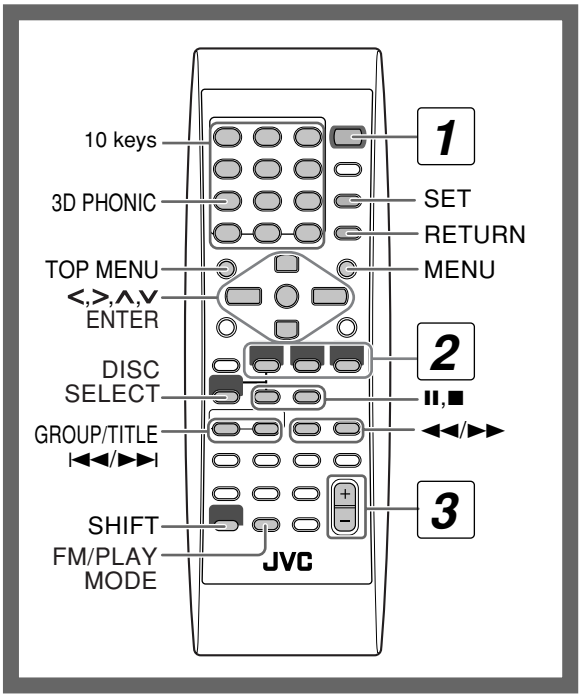
14 A (auto). STANDBY indicator
- Lights when Auto Standby is activated.
- Flashes when disc playback stops with Auto Standby activated.

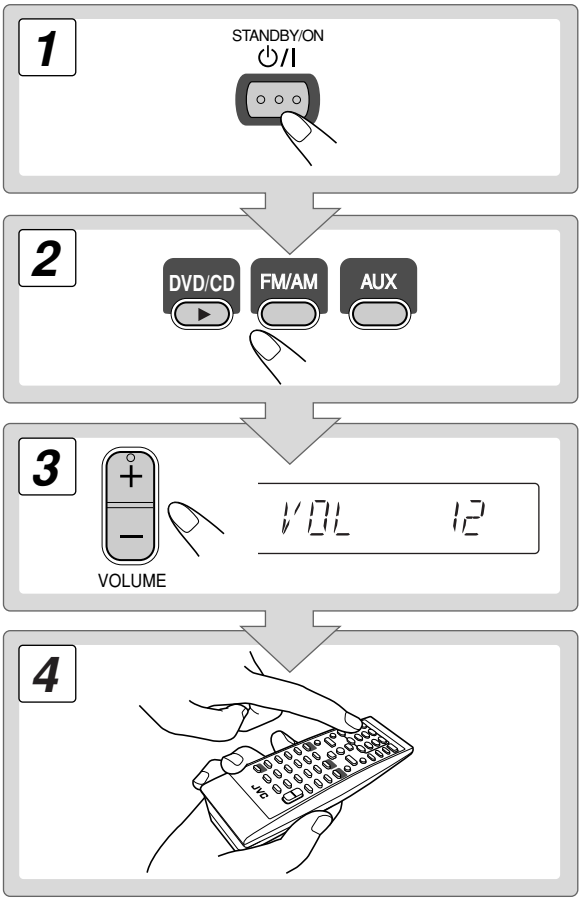
Indications on the main display while operating a disc

While playing back a disc:	While disc play is stopped:
• DVD Video:  • By pressing DISPLAY, you can show the current title and chapter numbers for a few seconds.	• DVD Video: 
• DVD Audio:  • By pressing DISPLAY, you can show the current group and track numbers for a few seconds.	• DVD Audio: 
• Audio CD:  	• Audio CD: 
• SVCD/VCD:  * “PBC” appears while playing a disc with PBC.	• SVCD/VCD:  * Changes to “PBC” when stopping PBC playback.
• MP3/WMA:  • By pressing DISPLAY, you can show the current group and track numbers for a few seconds.	• MP3/WMA: 
• JPEG:  	• JPEG: 

• If Resume is turned “ON” (see page 34), “RESUME” appears when you stop playback (except for Audio CD and MP3/WMA/JPEG discs).

Daily Operations—Playback





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

1 Turn on the power.

The STANDBY/ON lamp on the main unit lights in green.

- Without pressing STANDBY/ON ⏻/I, the System turns on by pressing one of the source selecting buttons in the next step.

2 Select the source.

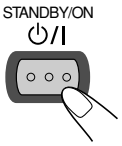
Playback automatically starts if the selected source is ready to start.

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

3 Adjust the volume.

4 Operate the target source as explained later.

To turn off (stand by) the unit



The STANDBY/ON lamp on the main unit lights in red.

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

For private listening

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

- Disconnecting the headphones will activate the speakers again.

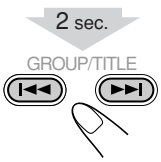
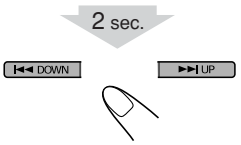
DO NOT turn off (stand by) the System with the volume set to an extremely high level; Otherwise, the sudden blast of sound can damage your hearing, speakers and/or headphones when you turn on the System or start playback.

Listening to the Radio

To select the band (FM or AM)

To tune in to a station

While FM or AM is selected...

Remote control:	Main unit:
	

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 (Remote ONLY)

The MONO indicator lights on the display. Reception will improve though stereo effect is lost—Monaural reception mode.
To restore the stereo effect, press the button again (the MONO indicator goes off).

To preset the stations (Remote ONLY)

You can preset 30 FM and 15 AM stations.

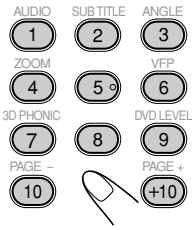
1 **Tune in to a station you want to preset.**

- You can also store the monaural reception mode for FM preset stations if selected.

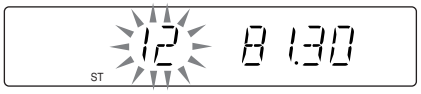
2 **Activate the preset number entry mode.**

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

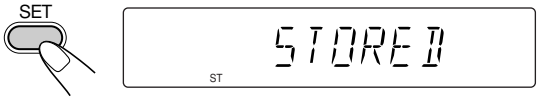
3 **Select a preset number for the station you store.**



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.



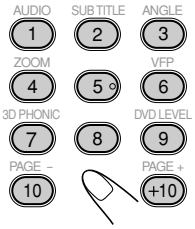
4 **Store the station.**



To tune in to a preset station (Remote ONLY)

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

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



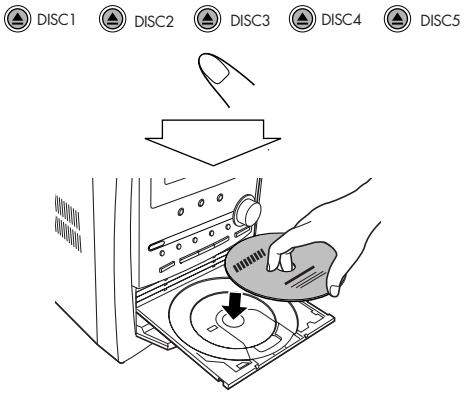
- You can also use the ◄◄/►► button to select a preset station.

Playing Back a Disc

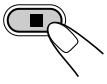
Before operating a disc, be familiar how a disc is recorded.
- DVD Video comprises of "**Titles**" which includes "**Chapters**," DVD Audio/MP3/WMA comprise of "**Groups**" which include "**Tracks**," and CD/SVCD/VCD comprise of only "**Tracks**."
- **For JPEG playback, see "Operations on the CONTROL Screen" on page 27.**

To insert a disc

You can insert a disc while playing another source.



To close the disc tray, press the same ⏏ 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.

To start:	To pause:	To stop:
	To release, press DVD/CD ►.	

- **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 34.)
- 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 34.

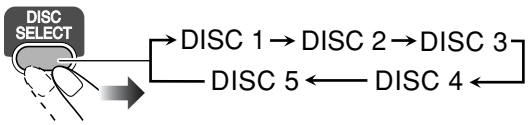
On-screen guide icons

- During DVD Video playback, the following icons may appear on the TV screen:

	At the beginning of a scene containing multi-angle views.
	At the beginning of a scene containing multi-audio sounds.
	At the beginning of a scene containing multi-subtitles.

- The following icons will be also shown on the TV screen to indicate your current operation.

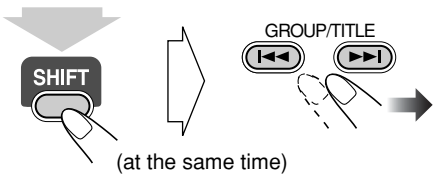
To select a disc



- 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...



- 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...

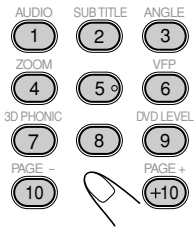
- No sound comes out while searching on DVD Video/ SVCD/VCD.

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

To locate an item directly

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

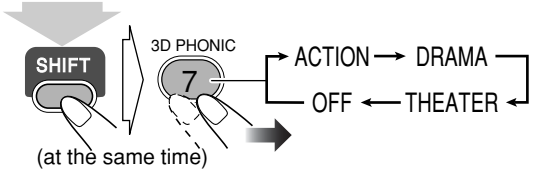
- For DVD Video, you can select **a title before starting playback**, while you can select **a chapter after starting playback**.



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

To use 3D Phonic

While playing...



On the TV screen

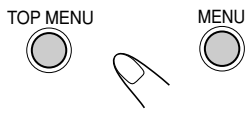
ACTION	Suitable for action movies and sports programs.
DRAMA	Creates natural and warm sound. Enjoy movies in a relaxed mood.
THEATER	Enjoy sound effects like in a major theater.

To play back using the disc menu

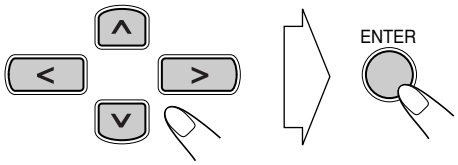
You can operate a disc—DVD and SVCD/VCD with Playback Control (PBC)—using the disc menu shown on the TV screen.

■ For DVD Video/DVD Audio:

1 **Show the disc menu.**



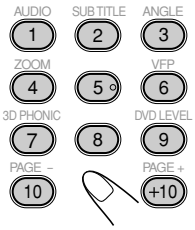
2 **Select an item on the disc menu.**



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

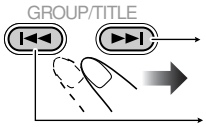
■ For SVCD/VCD with PBC:

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.

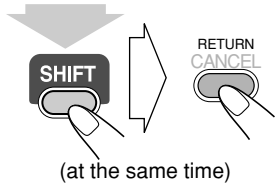


Examples:
To select number 5, press 5.
To select number 15, press +10, then 5.
To select number 30, press +10, +10, then 10.

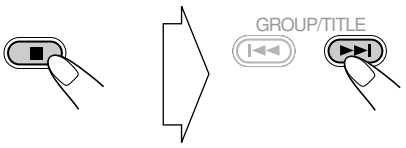
To move to the next or previous page of the current menu:



To return to the previous menu:



To cancel PBC

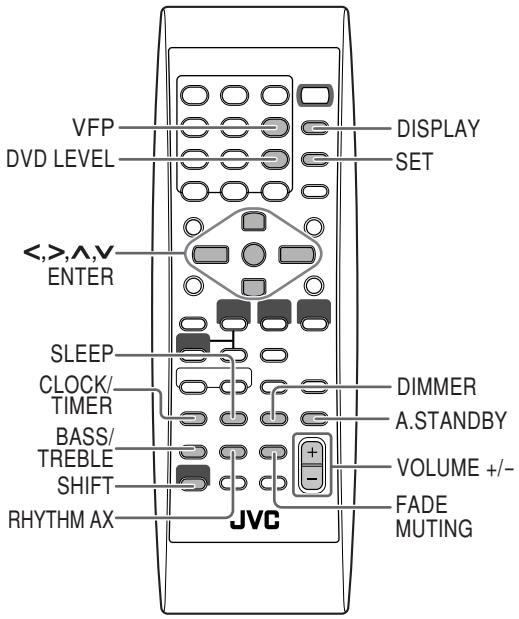


- You can also cancel PBC function by pressing the number button to select a track.

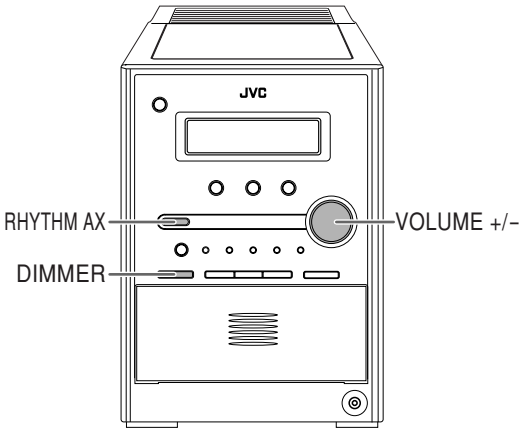
To reactivate PBC, press ■, then press I◄◄.

Daily Operations—Sound&Other Adjustments

Remote control

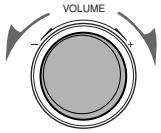


Main unit



Adjusting the Volume

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

Remote control:	Main unit:
	

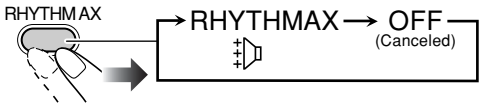
To drop the volume in a moment

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

Adjusting the Sound

To emphasize rhythm feeling—RHYTHM AX

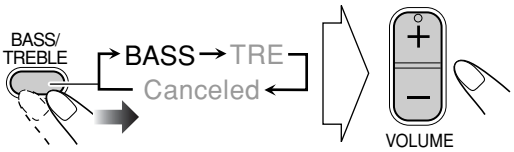
This function emphasizes bass attack feeling.



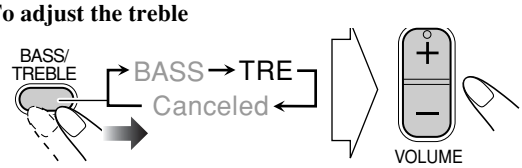
To adjust the tone

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

To adjust the bass

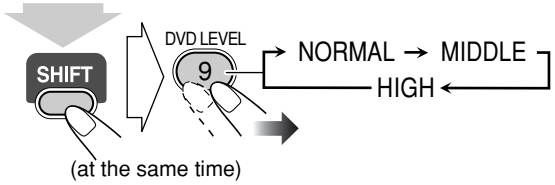


To adjust the treble



Presetting Automatic DVD Sound Increase Level

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.



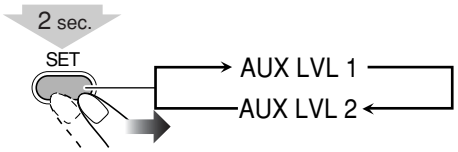
NORMAL	Original recording level.
MIDDLE	Output level is increased (less than "HIGH").
HIGH	Output level is increased (more than "MIDDLE").

• 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).

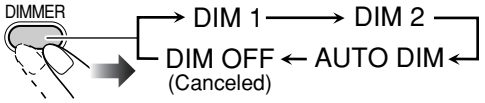
While the "AUX" is selected as a source...



AUX LVL 1	Select this when the sound is too loud (initial setting).
AUX LVL 2	Select this when the sound is not loud enough.

Changing the Display Brightness

You can dim the display window.



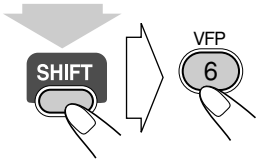
DIM 1	Dims the display.
DIM 2	Erases the display illumination.
AUTO DIM	Erase the display illumination a few seconds after disc playback starts. • The display illuminates when playback stops.

Changing the Picture Tone

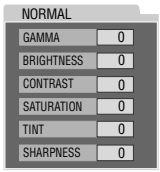
While showing a playback picture on the TV screen, you can select the preset picture tone, or adjust it and store your own likeliness.

To select a preset picture tone

1 **Activate VFP.**

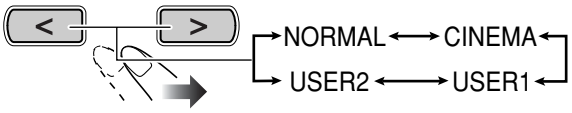


(at the same time)



On the TV screen

2 **Select a preset picture tone.**

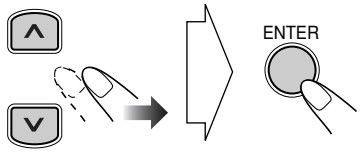


NORMAL	Normally select this.
CINEMA	Suitable for a movie source.
USER1/USER2	You can adjust parameters and can store the settings (see page 16) .

To adjust the picture tone

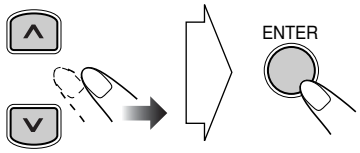
1 Select "USER1" or "USER2."
- Follow steps **1** and **2** explained on page 15.

2 Select a parameter you want to adjust.



GAMMA	Adjust if the neutral color is bright or dark (–3 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

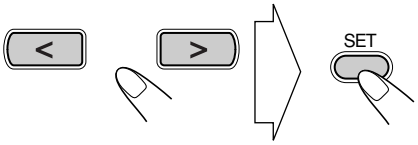
Remote ONLY

Without setting the built-in clock, you cannot use Daily Timers (see page 29) and Sleep Timer.
- To exit from the clock setting, press CLOCK/TIMER as required.
- To go back to the previous step, press CANCEL.

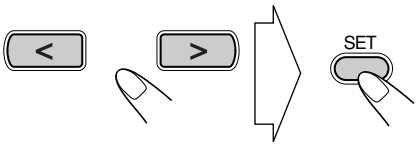
1 Activate the clock setting mode.

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

2 Adjust the hour.

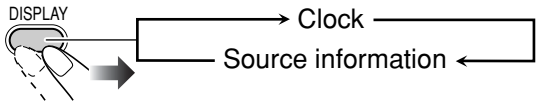


3 Adjust the minute.



Now the built-in clock starts working.

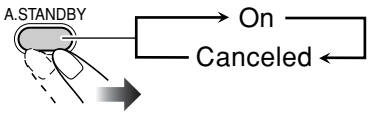
To check the current clock time during play



- While playing a DVD and MP3/WMA, you cannot check the current clock time (see page 9).

Turning Off the Power Automatically

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

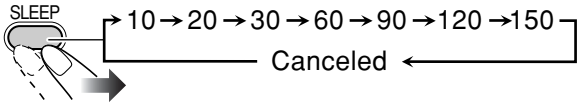


When Auto Standby is in use, the A.STANDBY indicator lights on the display.
When disc play stops, the A.STANDBY indicator starts flashing. If no operation is done for about 3 minutes while the indicator is flashing, the System turns off (stands by) automatically.

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

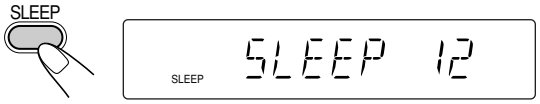
To turn off the unit after a certain period of time —Sleep Timer

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



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

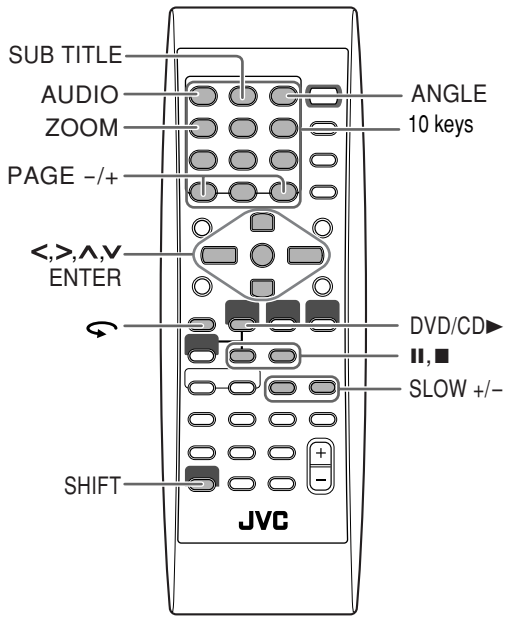
To check the time remaining until the shut-off time



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

Unique DVD/VCD Operations

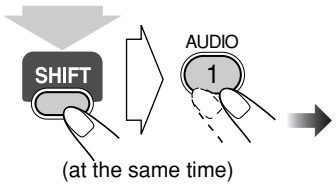
Remote control



Selecting the Sound Track

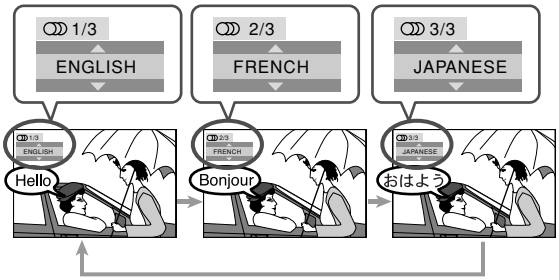
For DVD Video: While playing back a chapter containing audio languages, you can select the language to listen to.
For DVD Audio: While playing back a track containing audio channels, you can select the audio channel to listen to.
For SVCD/VCD: When playing back a track, you can select the audio channel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

• You can also select the audio track using the on-screen bar (see page 24).



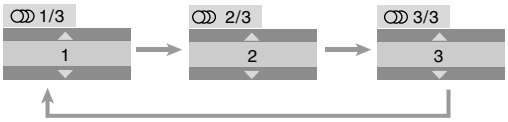
While playing a DVD Video...

Ex.:

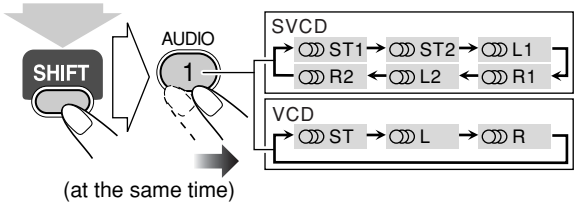


While playing a DVD Audio...

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.

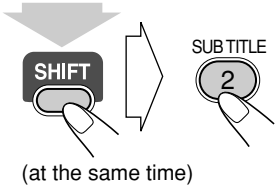
• SVCD can have 4 audio channels. Karaoke SVCD usually uses these 4 channels to record two 2-channel recordings (ST1/ST2).

Selecting the Subtitle Language

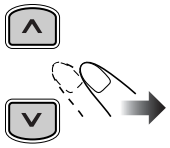
For DVD Video: While playing back a chapter containing subtitles in different languages, you can select the subtitle language to display on the TV screen.
For SVCD: While playing, you can select the subtitles even if no subtitles are recorded on the disc.
• You can also select the subtitle language using the on-screen bar (see page 24).

While playing a DVD Video...

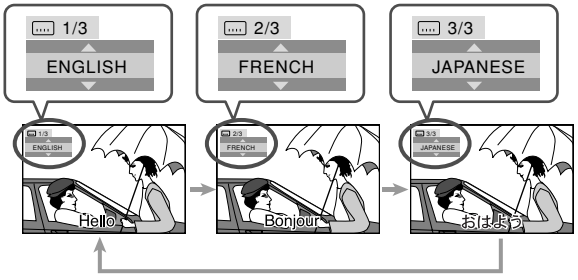
1 **Display the subtitle selection window.**



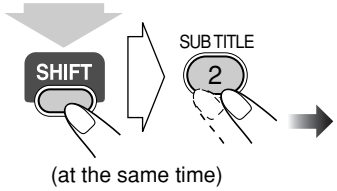
2 **Select the subtitle language.**

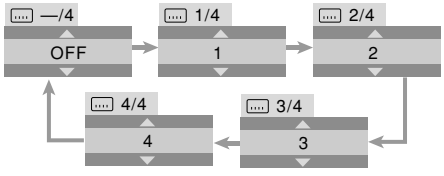


Ex.:



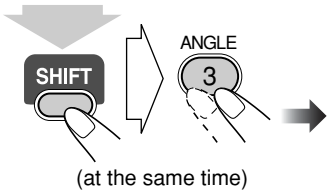
While playing an SVCD video...



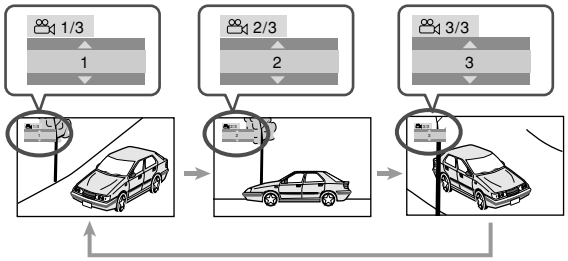


Selecting the View Angle

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 on-screen bar (see page 24).
While playing...



Ex.:

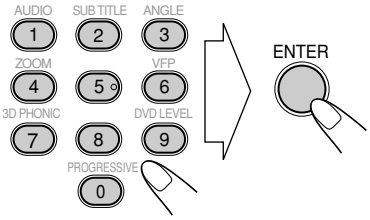


Playing Back a Bonus Group

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 12.

2 **Enter the key number.**



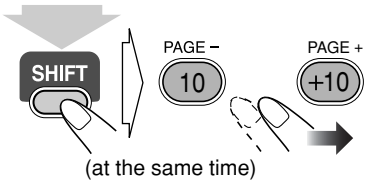
3 **Follow the interactive instructions shown on the TV screen.**

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 24).



Special Effect Playback

Still picture playback

To start still picture playback:	To resume normal playback:
While playing...	

Frame-by-frame playback

1 While playing...

Still picture playback starts.

2 Advance the still picture frame by frame.

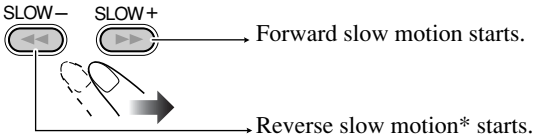
To resume normal playback, press DVD/CD ►.

Slow-motion playback

1 While playing...

Still picture playback starts.

2 Select slow motion speed.

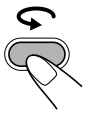


*Not available for SVCD/VCD.

To resume normal playback, press DVD/CD ►.

To replay the previous scenes (One touch replay function)

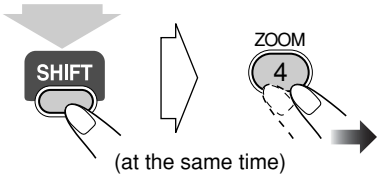
- This function is only used while playing DVD Video.

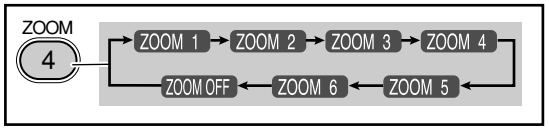


The playback position moves back 10 seconds before the current position (only within the same title).

Zoom

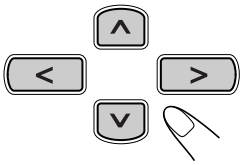
1 While playing back....





As the number increases, magnification also increases.

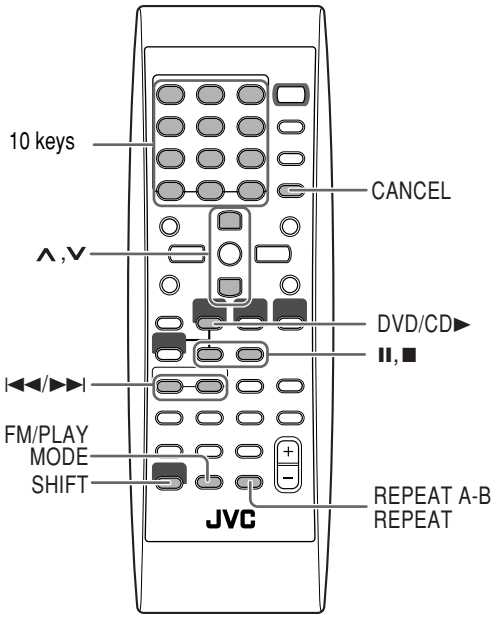
2 Move the zoomed-in position.



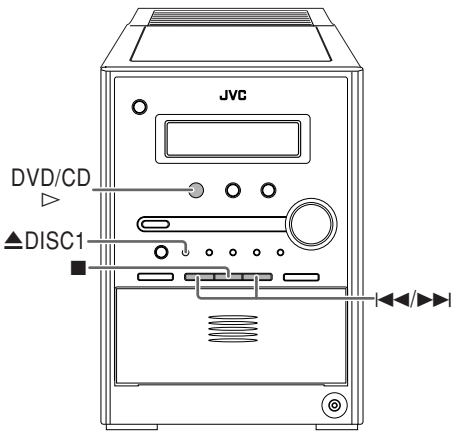
To resume normal playback, press ZOOM repeatedly until "ZOOM OFF" appears on the TV screen.

Advanced Disc Operations

Remote control



Main unit

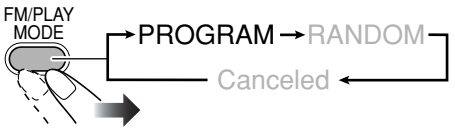


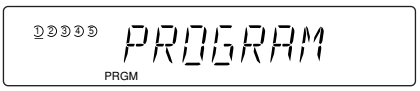
Programming the Playing Order— Program Play

Remote ONLY

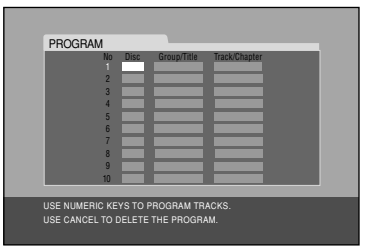
You can arrange the playing order of the chapters or tracks (up to 99) before you start playback.

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





On the display

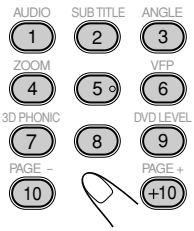


On the TV screen

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 number entry as well, however, during playback, the System will ignore these entries.

To enter the numbers:

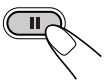
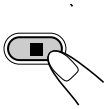


Examples:
To enter number 5, press 5.
To enter number 15, press +10, then 5.
To enter number 30, press +10, +10, then 10.

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

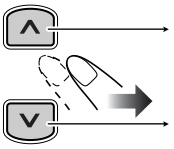
4 Start playback.

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...

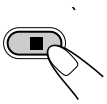


In the reverse order.

In the programmed order.

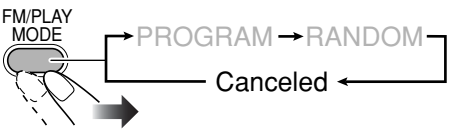
To modify the program

Before or after playback...

To erase the last step:	To erase the entire program:
	
To add steps in the program:	
Repeat steps ***2*** and ***3*** on page 21.	

To exit from Program Play

Before or after playback...

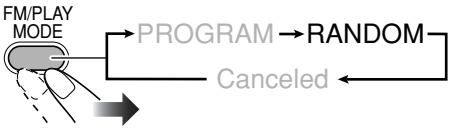


Playing at Random—Random Play

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

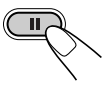
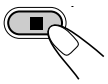
• Random Play cannot be used for some DVDs.

1 Before starting playback, activate Random Play.



2 Start playback.

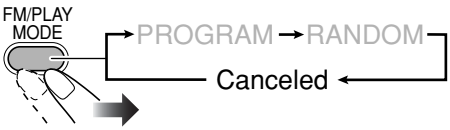
Playback starts in random order. Random Play ends when all the tracks are played once (when Repeat Play is not activated).

To skip a chapter/ track:	To pause:	To stop:
To skip to the beginning of the current track, press ⏮.	 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

Remote ONLY

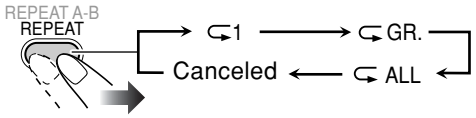
• You can also select the repeat mode using the on-screen bar (see page 25).

Repeat Play

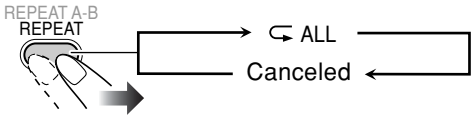
You can repeat playback.

• For DVD Video:

While playing...

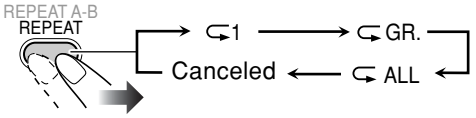


Before starting playback...



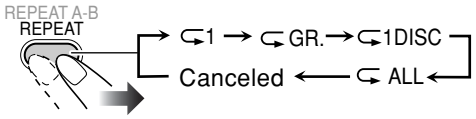
• For DVD Audio:

While playing or before playback...



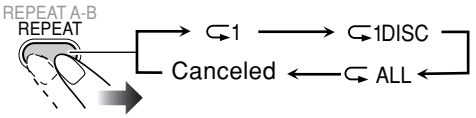
• For MP3/WMA:

While playing or before playback...

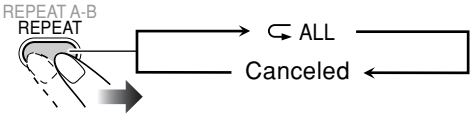


• For CD/SVCD/VCD:

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

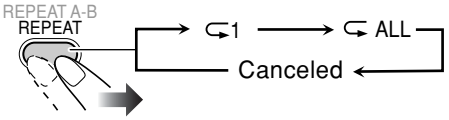


While playing (with PBC for SVCD/VCD) playback...



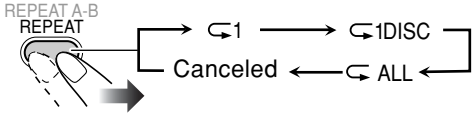
• For Program Play:

While playing or before playback...



• For Random Play:

While playing or before playback...



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

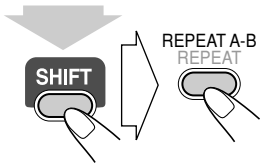
A-B Repeat

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.

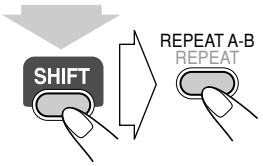
1 While playing (without PBC for SVCD/VCD), select the start point (A).



A- lights on the display.

• A- appears on the TV screen if the TV is turned on.

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.

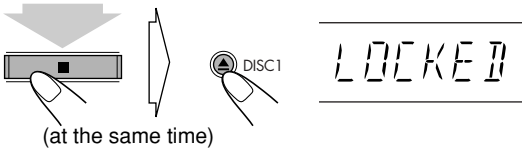
Prohibiting Disc Ejection—Child Lock

Main Unit ONLY

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

• This is possible while the System is on standby.

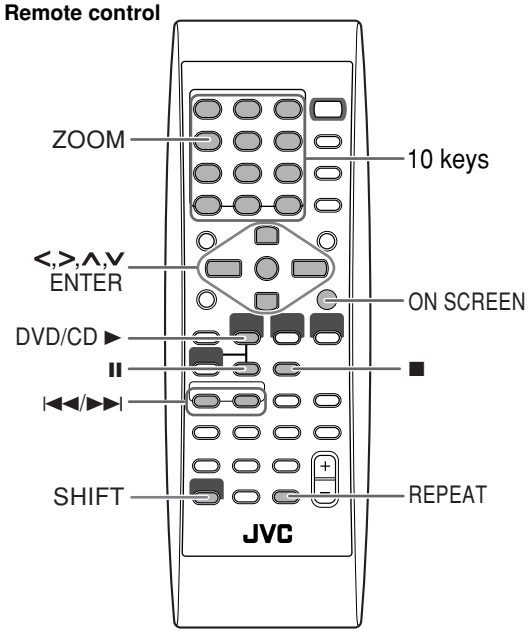
While the disc trays are closed...



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

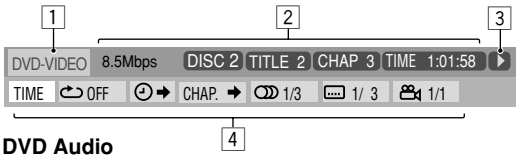
On-Screen Disc Operations

Remote control

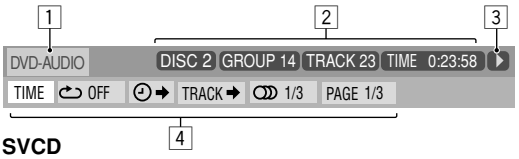


On-screen bars

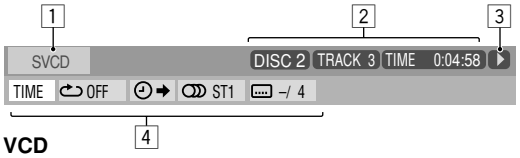
DVD Video



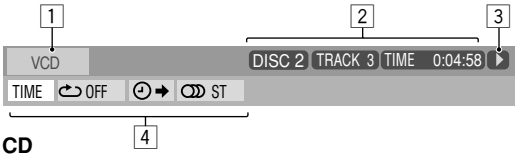
DVD Audio



SVCD



VCD



CD

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

3 **Operation modes**

Indication	Meanings
►	Playback
►► / ◄◄	Forward/Reverse search
►I / I◄	Forward/Reverse slow-motion
II	Pause
■	Stop

4 **Function icons (on the pull-down menu)**

Indication	Meanings
TIME	Select to change the time indication.
OFF	Select to repeat playback.
➔	Select for time search.
CHAP. ➔	Select for chapter search.
TRACK ➔	Select for track search.
1/3	Select to change the audio language or channel (see also page 18).
1/3	Select to change subtitle language (see also page 19).
1/3	Select to change the view angle (see also page 19).
PAGE 1/5	Select to change the page (see also page 20).

Operations Using the On-screen Bar

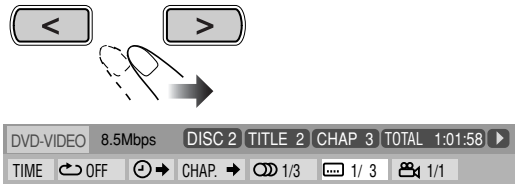
Remote ONLY

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

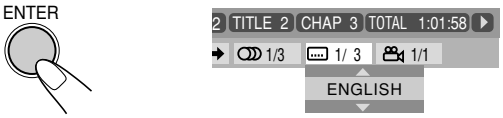
While a disc is selected as the source...

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

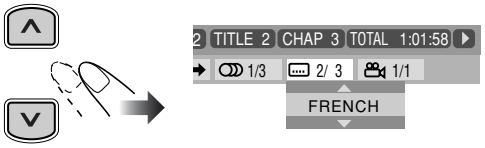
2 Select (highlight) the item you want.



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

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.

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 23.

1 While playing a disc (without PBC for SVCD/VCD), display the on-screen bar with the pull-down menu.

2 Select OFF .

3 Display the pop-up window.

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 23.

1 While playing, display the on-screen bar with the pull-down menu.

2 Select [OFF].

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.

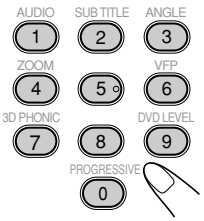
• Except for DVD: Time Search can be used before starting playback.

2 Select [⏲➔].

3 Display the pop-up window.

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.

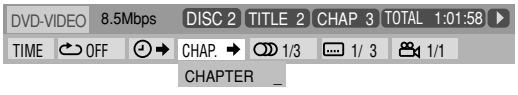
Chapter/Track Search

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

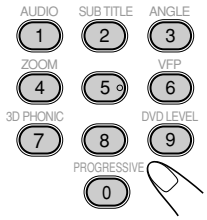
1 While playing, display the on-screen bar with the pull-down menu.

2 Select [CHAP.➔] or [TRACK➔].

3 Display the pop-up window.



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.

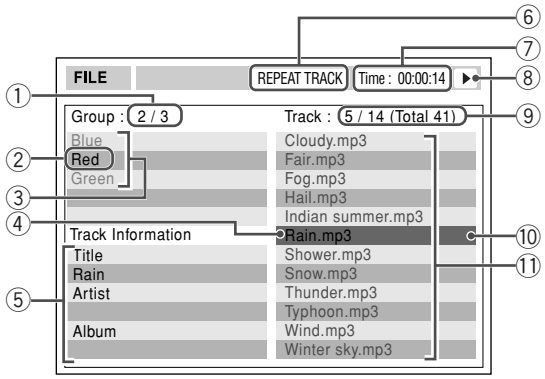
Operations on the CONTROL Screen

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 33).

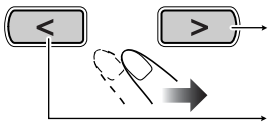
CONTROL screen

Ex.: When the MP3 disc is loaded.



① Current group number/total group number
② Current group
③ Group list
④ Current track (in blue)
⑤ Track information (ID3 Tag Version 1.0: only for MP3/WMA)
⑥ Repeat Play setting
⑦ Elapsed playing time of the current track (only for MP3/WMA)
⑧ Operation mode icon
⑨ Current track number/total number of tracks in the current group (total number of tracks on the loaded disc)
⑩ Highlight (green) bar
⑪ Track list

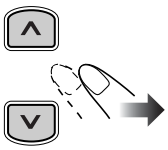
To move the highlight bar between group list and track list



Moves the bar to the track list.

Moves the bar to the group list.

To select a group/track in the list



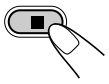
Move the highlight bar to a desired item.

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

To start playback

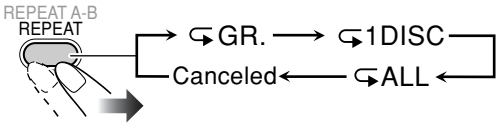
For MP3/WMA:	
	Playback starts with the selected track. • Pressing DVD/CD ► also starts playback.
For JPEG:	
	The selected track (still picture) is displayed until you change it.
	Slide-show playback starts. Each track (still picture) is shown on the screen for few seconds, then changes one after another.

- Once you start playback 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...



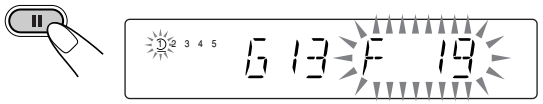
GR.	Repeats the current group.
1DISC	Repeats all disc.
ALL	Repeats the current disc.

• For Repeat Play of MP3/WMA, see page 23.

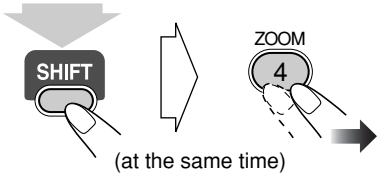
To zoom in the still picture

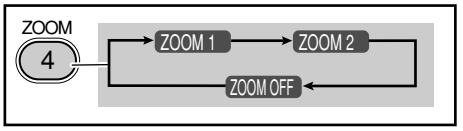
- You cannot zoom in the still picture during slide-show.

1 While playing...



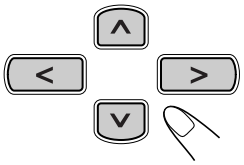
2 Change the magnification.





As the number increases, magnification also increases.

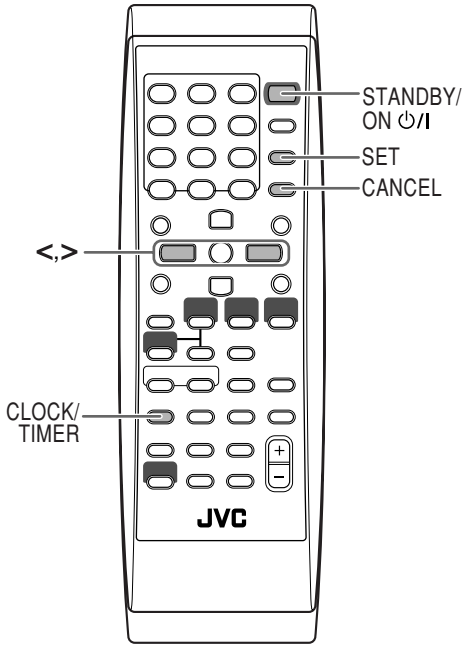
3 Move the zoomed-in position.



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

Timer Operations

Remote control



Setting the Timer

Remote ONLY

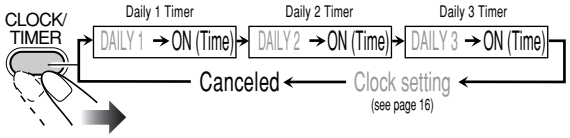
Using Daily Timer, you can wake up with your favorite music.
You can store three Daily Timer settings; however, you can activate only one of the timers at a time.

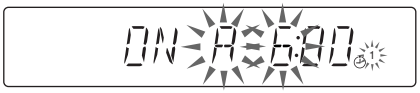
- To exit from the timer setting, press CLOCK/TIMER as required.
- To correct a misentry during the process, press CANCEL. You can return to the previous step.

Daily Timer initial settings when shipped from the factory:

- DAILY 1:ON Time (AM 6:00)/OFF Time (AM 8:00)/ Source (TUNER FM 1)/Volume level (– –)
- DAILY 2:ON Time (PM 12:00)/OFF Time (PM 2:00)/ Source (TUNER FM 1)/Volume level (– –)
- DAILY 3:ON Time (PM 6:00)/OFF Time (PM 8:00)/ Source (TUNER FM 1)/Volume level (– –)

1 Select one of the timer setting modes you want to set—Daily 1 ON time, Daily 2 ON time, or Daily 3 ON time.



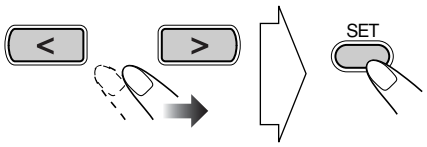


Ex. When Daily Timer 1 setting mode is selected

- When the clock has not been adjusted, pressing CLOCK/TIMER makes the System enter the clock setting mode.

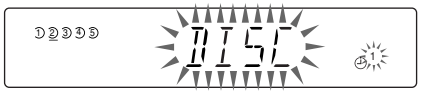
2 Make the timer setting as you want.

Repeat the following operations until you finish setting in the following order—



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

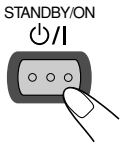
② **Set the hour then the minute for off-time.**
③ **Select the playback source—"TUNER FM," "TUNER AM," "DISC," or "AUX."**



④ **For "TUNER FM" and "TUNER AM": Select a preset channel.**
For "DISC": Select the disc number, title/group number, then the chapter/track number.
⑤ **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.

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 (⏲) 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 (⏲) indicator and timer number indicator (1/2/3) flash on the display.

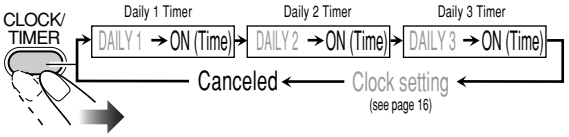
When the off-time comes

The System stops playback, and turns off (stands by) automatically.
- The timer setting remains in memory until you change it.

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.

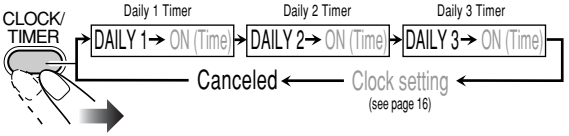


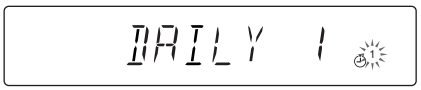
Ex.To cancel Daily Timer 1

2 Turn off the selected Timer.

To turn on the Timer

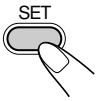
1 Select the Timer (DAILY 1, DAILY 2, or DAILY 3) you want to activate.





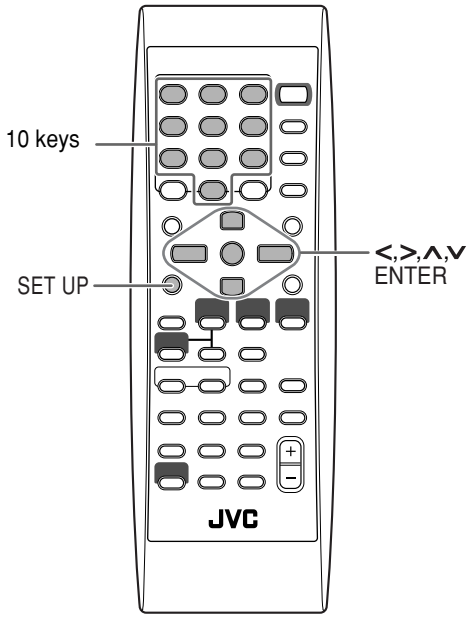
Ex.When Daily Timer 1 is selected

2 Activate the selected Timer.



Setup Menu Operations

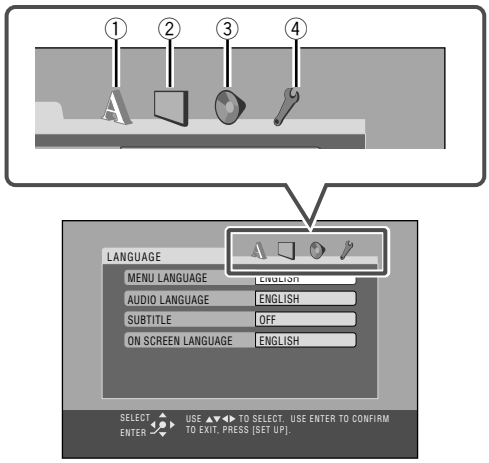
Remote control



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

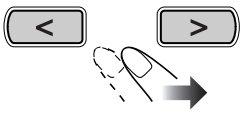
Remote ONLY

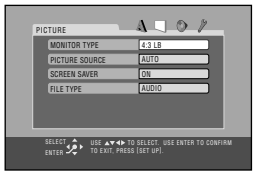
You can use the Setup Menus only when a disc is selected as the source and its playback is not yet started.

Ex.: Selecting “STILL PICTURE” for “FILE TYPE”:

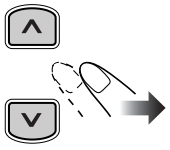
1 Display the Setup Menu.

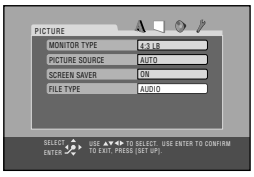
2 Select one of the Setup Menus.



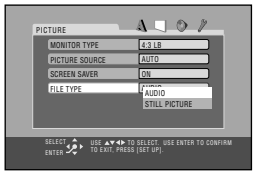


3 Select the item you want to adjust.

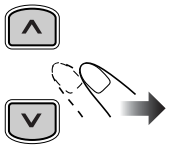


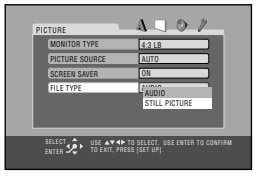


4 Display the pop-up window.



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





6 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.

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 41).

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 41).

SUBTITLE

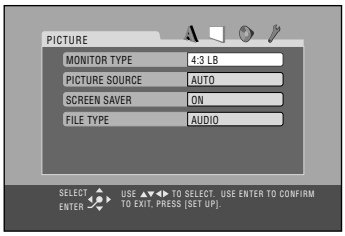
Some discs have multiple subtitle languages.
Select from—ENGLISH, SPANISH, FRENCH, CHINESE, GERMAN, ITALIAN, JAPANESE, AA – ZU (see "Language Code List" on page 41) or "OFF (no subtitle)."

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.



MONITOR TYPE

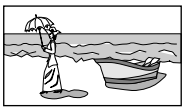
Select the monitor type of your TV to play DVD Video recorded with aspect ratio of 16:9.

Select one of the following:

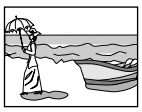
16:9:
Select when the aspect ratio of your TV is 16:9 and when the TV has the screen size adjustment function.

4:3 LB (Letter Box):
Select when the aspect ratio of your TV is 4:3 (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):
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

Ex.: 4:3 LB


Ex: 4:3 PS

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 43.

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 SURROUND:	To connect an amplifier with the Dolby 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.

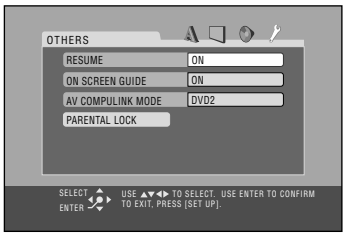
• The effectiveness varies depends on a software.

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 12).

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 12).

• 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 6.

PARENTAL LOCK

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

Restricting the Review —Parental Lock

Remote ONLY

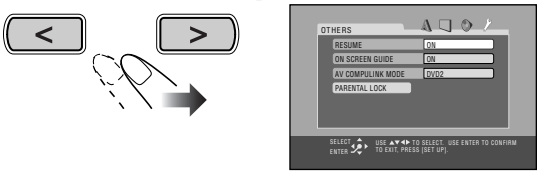
You can restrict playback of DVD Video containing violent scenes and those unsuitable for your family members. Once you have set the rating level, such violent scenes (for which a higher level than you set is assigned) may be skipped or changed to another scene (depending on how the disc is programmed).

To set Parental Lock

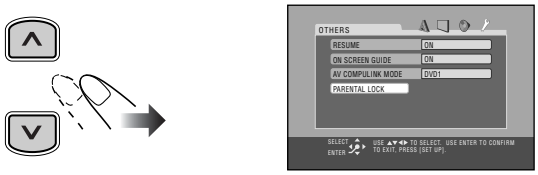
Set the rating level—Level 1 (most restrictive) to Level 8 (least restrictive).

1 Display the Setup Menu.

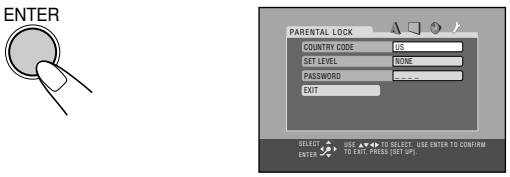
2 Select the OTHERS Setup Menus.



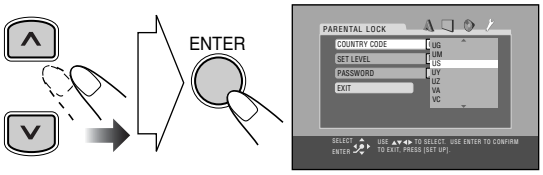
3 Select "PARENTAL LOCK."



4 Enter the PARENTAL LOCK submenu.

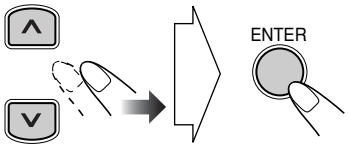


5 Select "COUNTRY CODE," then display the pop-up window.

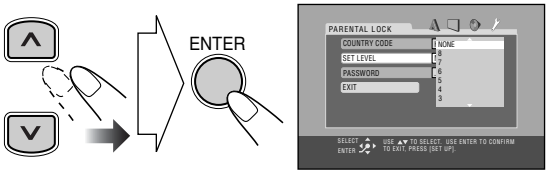


6 Select the country code of your area.

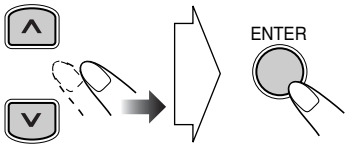
- See "Country/Area Codes List" on page 42 to find your country code.



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

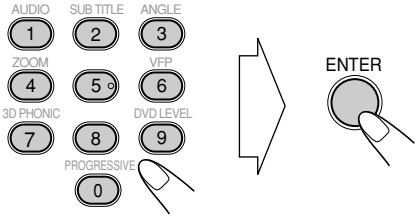


8 Set the rating level (NONE, 8 – 1).



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.

To change the setting

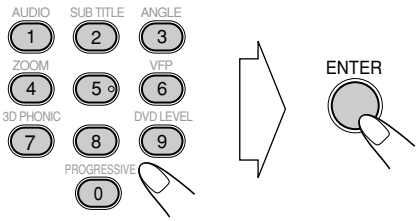
1 Display the PARENTAL LOCK sub menu.

• 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.

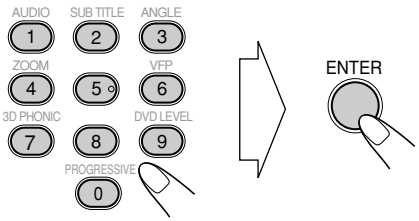
• If you enter a wrong password three times, "EXIT" is automatically selected. In this case, press ENTER to exit from the PARENTAL LOCK submenu.

• If you forget your password, enter "8888."

3 Change the settings.

• Follow steps **5** to **8** of "To set Parental Lock".

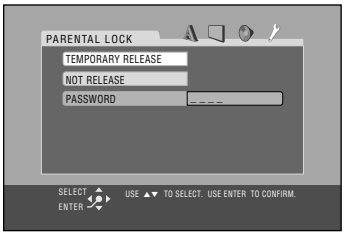
4 Enter your password again.



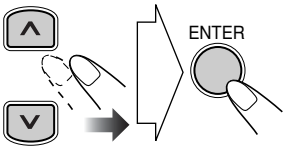
• If you want to change a password, enter a new four digit number in this step.

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.



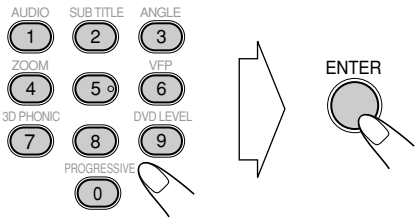
1 Select "TEMPORARY RELEASE," then ENTER.



"PASSWORD" is automatically selected.

• If you do not to play back such a disc, select "NOT RELEASE," then ENTER. Then eject the disc.

2 Enter your password.



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

Additional Information

Learning More about This System

Getting Started (see pages 3 to 6)

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 10 to 13)

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.
• 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 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 14 to 17)

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:

• “AM 12:00” 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 18 to 20)

• During slow-motion playback, no sound will be reproduced.
• One touch replay function works only within the same title, though it works between chapters.
• While zoomed in, the picture may look coarse.

Advanced Disc Operations (see pages 21 to 23)

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 24 to 28)

- 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.

Timer Operations (see pages 29 to 30)

- 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.
- If you set the Sleep Timer after Daily Timer starts playing the selected source, Daily Timer is canceled.

Setup Menu Operations (see pages 31 to 36)

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—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—DOWN MIX:

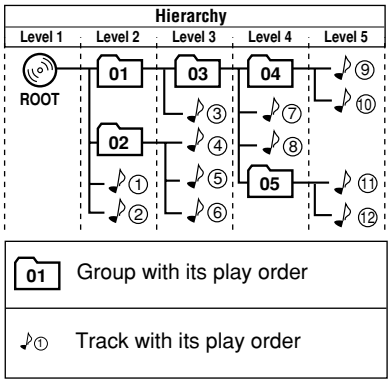
- This setting is not effective when DTS multi-channel software is played back.

OTHERS—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.

MP3/WMA/JPEG groups/tracks configuration

This System plays back the tracks as follows.



Maintenance

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

Handling discs

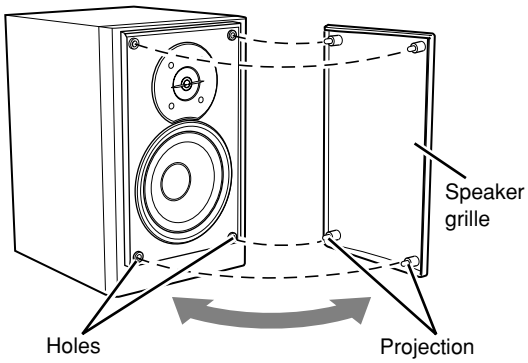
- When removing the disc from its case, hold it at the edge while pressing the center hole lightly.
- Do not touch the shiny surface of the disc, or bend the disc.
- Put the disc back in its case after use to prevent warping.
- Be careful not to scratch the surface of the disc.
- Avoid exposure to direct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

To clean the disc:
Wipe the disc with a soft cloth in a straight line from center to edge.

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 water-diluted 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.
⇨ 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.
⇨ The batteries are exhausted.

No sound is heard.
⇨ Speaker connections are incorrect or loose.
⇨ Headphones are connected.

No picture appears on the screen.
⇨ 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.
⇨ Select "4:3 LB" for "MONITOR TYPE" (see page 32).

Radio Operations:

Hard to listen to broadcasts because of noise.
⇨ Antennas connections are incorrect or loose.
⇨ 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 33).
⇨ 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.
⇨ The disc is scratched or dirty.

The disc tray does not open or close.
⇨ The AC power cord is not plugged in.
⇨ Child Lock is in use (see page 23).

Timer Operations:

"CLOCK ADJUST" appears when you press DAILY TIMER on the main unit.
⇨ The built-in clock has not yet been set.

Daily Timer does not work.
⇨ The System has been turned on when the on-time comes. Timer starts working only when the System is turned off.

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 19).

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 18).

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
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

JW	Javanese
KA	Georgian
KK	Kazakh
KL	Greenlandic
KM	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
MO	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
PT	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
TH	Thai
TI	Tigrinya
TK	Turkmen
TL	Tagalog
TN	Setswana
TO	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
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
AN	Netherlands Antilles
AO	Angola
AQ	Antarctica
AR	Argentina
AS	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AZ	Azerbaijan
BA	Bosnia and Herzegovina
BB	Barbados
BD	Bangladesh
BE	Belgium
BF	Burkina Faso
BG	Bulgaria
BH	Bahrain
BI	Burundi
BJ	Benin
BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia
BR	Brazil
BS	Bahamas
BT	Bhutan
BV	Bouvet Island
BW	Botswana
BY	Belarus
BZ	Belize
CA	Canada
CC	Cocos (Keeling) Islands
CF	Central African Republic
CG	Congo
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
DE	Germany
DJ	Djibouti
DK	Denmark
DM	Dominica
DO	Dominican Republic
DZ	Algeria
EC	Ecuador
EE	Estonia
EG	Egypt
EH	Western Sahara
ER	Eritrea
ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands (Malvinas)
FM	Micronesia (Federated States of)
FO	Faroe Islands
FR	France
FX	France, Metropolitan
GA	Gabon
GB	United Kingdom
GD	Grenada
GE	Georgia
GF	French Guiana
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe
GQ	Equatorial Guinea
GR	Greece
GS	South Georgia and the South 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
IO	British Indian Ocean Territory
IQ	Iraq
IR	Iran (Islamic Republic of)
IS	Iceland
IT	Italy
JM	Jamaica
JO	Jordan
JP	Japan
KE	Kenya
KG	Kyrgyzstan
KH	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
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
OM	Oman
PA	Panama
PE	Peru
PF	French Polynesia
PG	Papua New Guinea
PH	Philippines
PK	Pakistan
PL	Poland
PM	Saint Pierre and Miquelon
PN	Pitcairn
PR	Puerto Rico
PT	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
TM	Turkmenistan
TN	Tunisia
TO	Tonga
TP	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

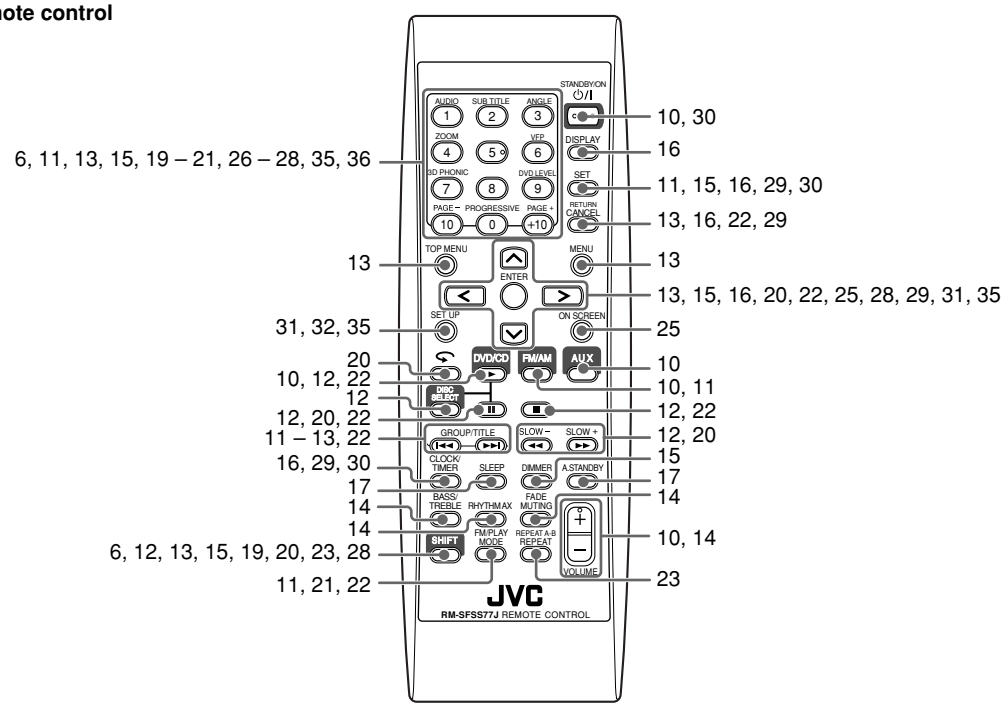
DIGITAL AUDIO OUT / **Playback disc**	**Output Signals**		
	STREAM/PCM	**DOLBY DIGITAL/PCM**	**PCM ONLY**
DVD Video with 48 kHz, 16/20/24 bit Linear PCM	48 kHz, 16 bit Linear PCM*		
with 96 kHz, Linear PCM	48 kHz, 16 bit Linear PCM		
with Dolby Digital	Dolby Digital bitstream		48 kHz, 16 bit Linear PCM
with DTS	DTS bitstream	48 kHz, 16 bit Linear PCM	
DVD Audio with 48/96/192 kHz, 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		
with Dolby Digital	Dolby Digital bitstream		48 kHz, 16 bit Linear PCM
with DTS	DTS bitstream	48 kHz, 16 bit 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 bit 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.

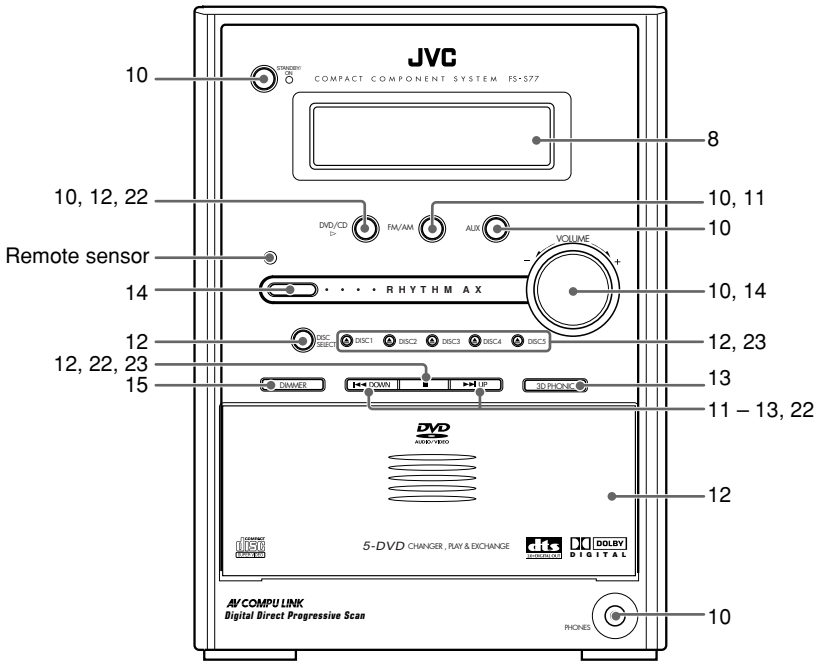
Parts Index

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

Remote control



Main unit



Specifications

Amplifier section

Output Power:

LOW: 25 W per channel, min. RMS, driven into 4 W at 1 kHz with no more than 10% total harmonic distortion.

HIGH: 25 W per channel, min. RMS, driven into 4 W at 10 kHz with no more than 10% total harmonic distortion.

Analog input:

AUX: Sensitivity/Impedance (at 1 kHz)
400 mV/47 kΩ (at "AUX LEVEL 1")
200 mV/47 kΩ (at "AUX LEVEL 2")

Digital output:

DVD OPTICAL DIGITAL OUT:
–21 dBm to –15 dBm (660 nm ±30 nm)

VIDEO OUT:

Color system: NTSC

VIDEO (composite): 1 V(p-p)/75 Ω

S-VIDEO: Y (luminance) 1 V(p-p)/75 Ω
C (chrominance, burst) 0.286 V(p-p)/75 Ω

COMPONENT:(Y) 1 V(p-p)/75 Ω
(P_B/P_R) 0.7 V(p-p)/75 Ω

Speaker Terminals: 4Ω – 16 Ω

Others:

AV COMPU LINK x 2 (ϕ 3.5)

Tuner section

FM tuning range: 87.5 MHz – 108.0 MHz
AM tuning range: 530 kHz – 1 710 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

General

Power requirement: AC 120 V ~ 60 Hz
Power consumption: 85 W (at operation)
15 W (on standby)
2.0 W (with deactivating the clock indication)
Dimensions (approx.): 175 mm x 237 mm x 375 mm (W/H/D)
Mass (approx.): 6.5 kg

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: 4 Ω
LOW: 4 Ω
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.

Spécifications

Section de l'amplificateur

Puissance de sortie:

LOW: 25 W par canal, min. RMS, entraîné sur 4 W à 1 Hz avec moins de 10% de distorsion harmonique totale.

HIGH: 25 W par canal, min. RMS, entraîné sur 4 W à 10 Hz avec moins de 10% de distorsion harmonique totale.

Entrée analogique:

AUX: Sensibilité/Impédance (à 1 kHz)
400 mV/47 kΩ (à "AUX LEVEL 1")
200 mV/47 kΩ (à "AUX LEVEL 2")

Sortie numérique:

DVD OPTICAL DIGITAL OUT:
–21 dBm à –15 dBm (660 nm ±30 nm)

VIDEO OUT:

Standard de couleur:NTSC

VIDEO (composite):	1 V(c-c)/75 Ω
S-VIDEO: Y (luminance)	1 V(c-c)/75 Ω
C (chrominance, en salve)	0,286 V(c-c)/75 Ω
COMPONENT:(Y)	1 V(c-c)/75 Ω
(P_B/P_R)	0,7 V(c-c)/75 Ω
Prises d'enceinte:	4 Ω – 16 Ω

Autres:

AV COMPU LINK x 2 (ϕ 3,5)

Section du tuner

Plage d'accord FM:	87,5 MHz – 108,0 MHz
Plage d'accord AM:	530 MHz -1 710 MHz

Section du lecteur de dissque

Disques reproductibles:	DVD Vidéo/DVD Audio/ CD/VCD/SVCD CD-R/CD-RW (enregistré au format CD Audio/CD Vidéo/Super CD Vidéo/ MP3/WMA/JPEG) DVD-R/DVD-RW (enregistré au format vidéo)
Plage dynamique:	90 dB
Résolution horizontale:	500 lignes
Pleurage et scintillement:	Non mesurable
Format d'enregistrement MP3:	MPEG 1/2 Audio Layer 3
Débit binaire maximum:	320 kbps

Général

Alimentation:	Secteur 120 V ~ , 60 Hz
Consommation:	85 W (pendant le fonctionnement) 15 W (en attente) 2,0 W (quand l'indication de l'horloge est hors service)
Dimensions (approx.):	175 mm x 237 mm x 375 mm (L/H/P)
Masse (approx.):	6,5 kg

Accessoires fournis

Voir page 3.

Enceintes

Type:	Type bass-reflex à 3 voies
Systèmes d'enceinte:	Haut-parleur de grave: 1 cône de 10 cm Haut parleur d'aigus: 1 cône de 4 cm
Capacité de puissance soutenue:	
	HIGH: 20 W
	LOW: 20 W
Impédance:	HIGH: 4 Ω
	LOW: 4 Ω
Plage de fréquence:	56 Hz – 40 000 Hz
Niveau de pression acoustique:	84 dB/W•m
Dimensions (approx.):	145 mm x 236 mm x 205 mm (L/H/P)
Masse (approx.):	2,3 kg par enceinte

La conception et les spécifications sont sujettes à changement sans notification.

FS-S77B | COMPACT COMPONENT SYSTEM

JVC

VICTOR COMPANY OF JAPAN, LIMITED

EN, FR

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0304AIMMDWJEM