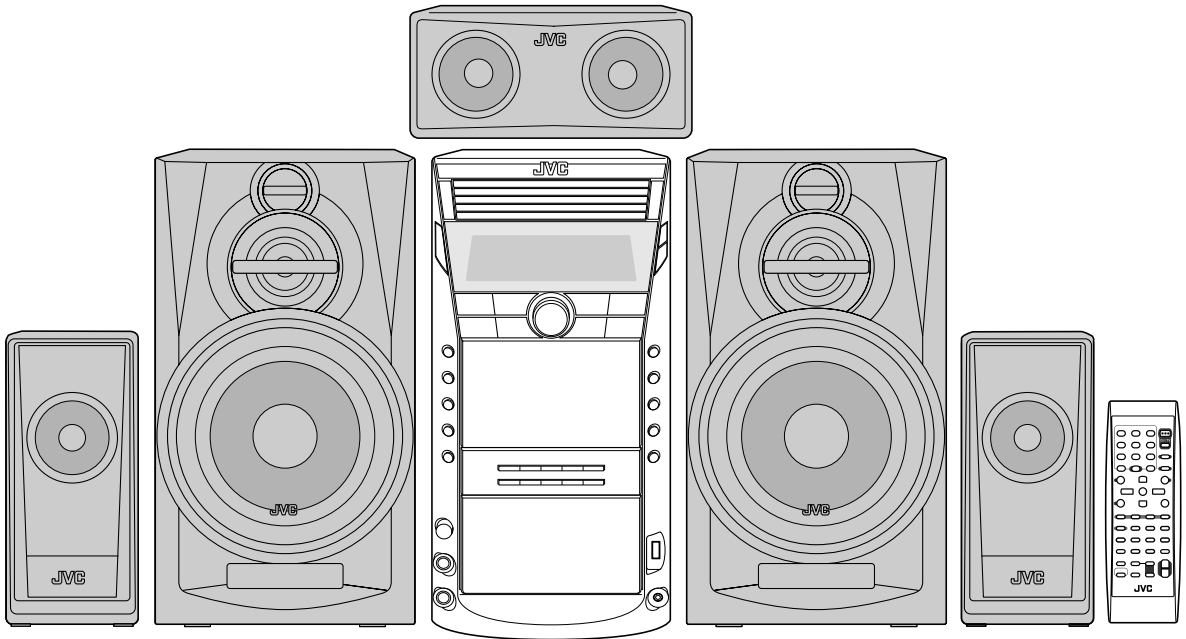


JVC



COMPACT COMPONENT SYSTEM

CA-DXJ36



MP3/WMA/WAV

DVD-R/RW +R +RW
PLAYBACK ** ** VIDEO

MPEG-4
ASF PLAYBACK

Vario BASS

ACTIVE BASS
EXTENSION


Digital Direct Progressive Scan



INSTRUCTIONS

Warnings, Cautions and Others

Caution— (standby/on) button!

Disconnect the mains plug to shut the power off completely (the STANDBY lamp goes off). When installing the apparatus, ensure that the plug is easily accessible. The  button in any position does not disconnect the mains line.

- When the System is on standby, the STANDBY lamp lights red.
- When the System is turned on, the STANDBY lamp goes off.

The power can be remote controlled.

CAUTION

To reduce the risk of electrical shocks, fire, etc.:

1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

CAUTION

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

CAUTION

Excessive sound pressure from earphones or headphones can cause hearing loss.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover or cabinet. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and/or invisible Class 1M Laser radiation when open. Do not view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED INSIDE THE UNIT.

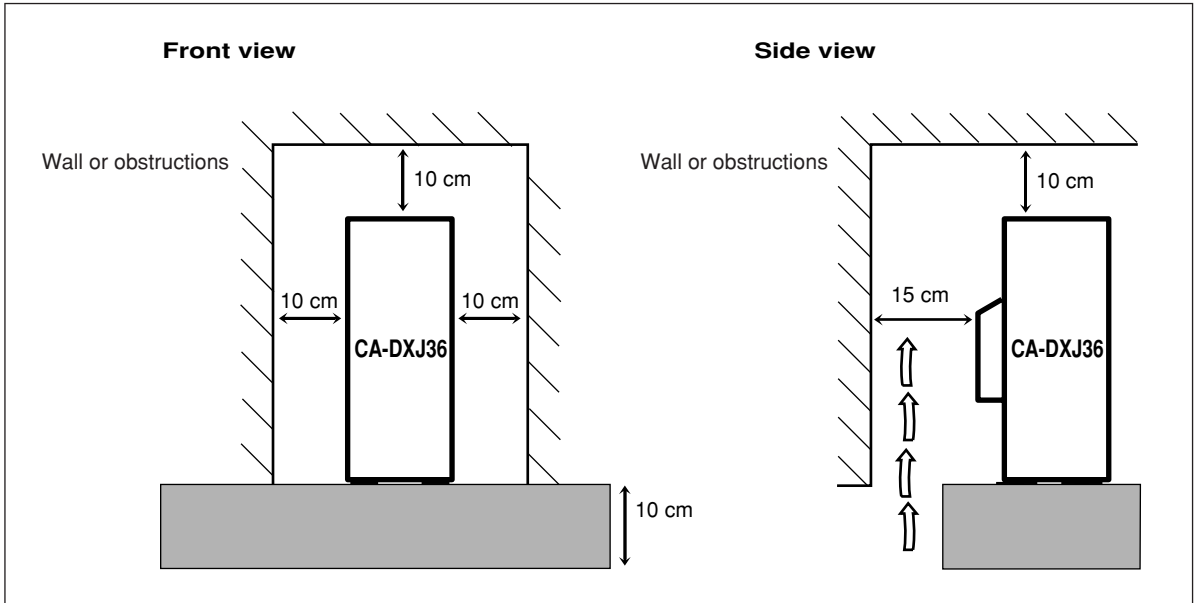
CAUTION VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC00025-1:2001 (ENG)	ATTENTION RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M LORSQU'EST OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	AVISO RADIACION LASER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTA ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL OPTICA. (ESP)	VARNING SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÅR DENNA DEL ÄR ÖPPNAD. BETRÄKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	注意 この装置から発せら れるレーザー光線は クラス1M レーザー放射が 発生します。 光学機器で直接 見ないでください。 (JPN)	CAUTION VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR 1040.10 LV44009-003A
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Caution: Proper Ventilation

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

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



Introduction

Playable Disc/File Types

INFO



The “√” in the list below shows available disc/file types.

Recording format		Media type		
		CD-R/ -RW*1	DVD-R/ -RW, +R/ +RW*2	USB mass storage class device
Discs	CD-DA (normal CD)	√	—	—
	VCD/SVCD	√	—	—
	DVD Video	—	√	—
	DVD Audio	—	√	—
	DVD-VR	—	√*3	—
AV files	Audio file: MP3/WMA/WAV	√	√	√
	Video file: MPEG-1/MPEG-2/ ASF/DivX	√	√	√
	Still picture file: JPEG	√	√	√

*1 Recorded with “ISO 9660” format.

*2 Recorded with “UDF-Bridge” format.

*3 Not applicable for +R/+RW.

In addition to the above discs/files, this System can play back audio data recorded on CD-Extra and DVD/CD Text.

- The following discs cannot be played back:
DVD-RAM, CD-I (CD-I Ready) and Photo CD.
Playing back these discs will generate noise and damage the speakers.
- DVD Logo is a trademark of DVD Format/Logo Licensing Corporation.
- In this manual, “file” and “track” are interchangeably used for AV file operations.
- It is possible to play back finalized +R/+RW (DVD Video format only) discs.

Caution for DualDisc playback:

The Non-DVD side of a “DualDisc” does not comply with the “Compact Disc Digital Audio” standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

About color system

This System accommodates both NTSC and PAL system and can play back discs/files recorded in either system. To change the color system, see page 6.

Note on Region Code

DVD players and DVD Video have their own Region Code numbers. This System can play back only DVD Video with an appropriate Region Code number.

- For details, see “Specifications” on page 47.

EX.: For Southeast Asia



Audio formats

The System can play back the following digital audio formats.

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

How to Read This Manual

- Button and control operations are explained in the table below.
- **Some related tips and notes are explained later in the sections “Learning More about This System” and “Troubleshooting,” but not in the same section explaining the operations (INFO indicates that the content has some information).**

	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 a press (in the example, 2 seconds).
	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 main unit.

Precautions

Installation

- Install the System in a location with adequate ventilation to prevent internal heat build-up 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.

- Install in a place which is level, dry and neither too hot nor too cold—between 5°C and 35°C.
- Leave sufficient distance between the System and the TV.
- Keep the speakers away from the TV to avoid interference with the 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 in the lenses on 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

- Make sure there is good ventilation around the System. Poor ventilation could overheat and damage the System. –A cooling fan is inside the System to prevent heat build-up.



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

Others

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



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

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

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

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Connections

Do not connect the AC power cord until all other connections have been made.

- Connect VIDEO OUT directly to the video input of your TV. Connecting VIDEO OUT to a TV via a VCR may interfere with your viewing when playing back a copy-protected source. Connecting VIDEO OUT to an integrated TV/VCR system may interfere with your viewing.

Supplied accessories

- FM antenna (x1)
 - AM loop antenna (x1)
 - Composite video cord (x1)
 - Remote control (x1)
 - Batteries (x2)
 - AC plug adapter (x1)
(not supplied for Australia, Thailand and the Middle East.)
- If any item is missing, consult your dealer immediately.

1 From the video input of TV/monitor
See page 4.

2 From AM/FM antenna
See page 4.

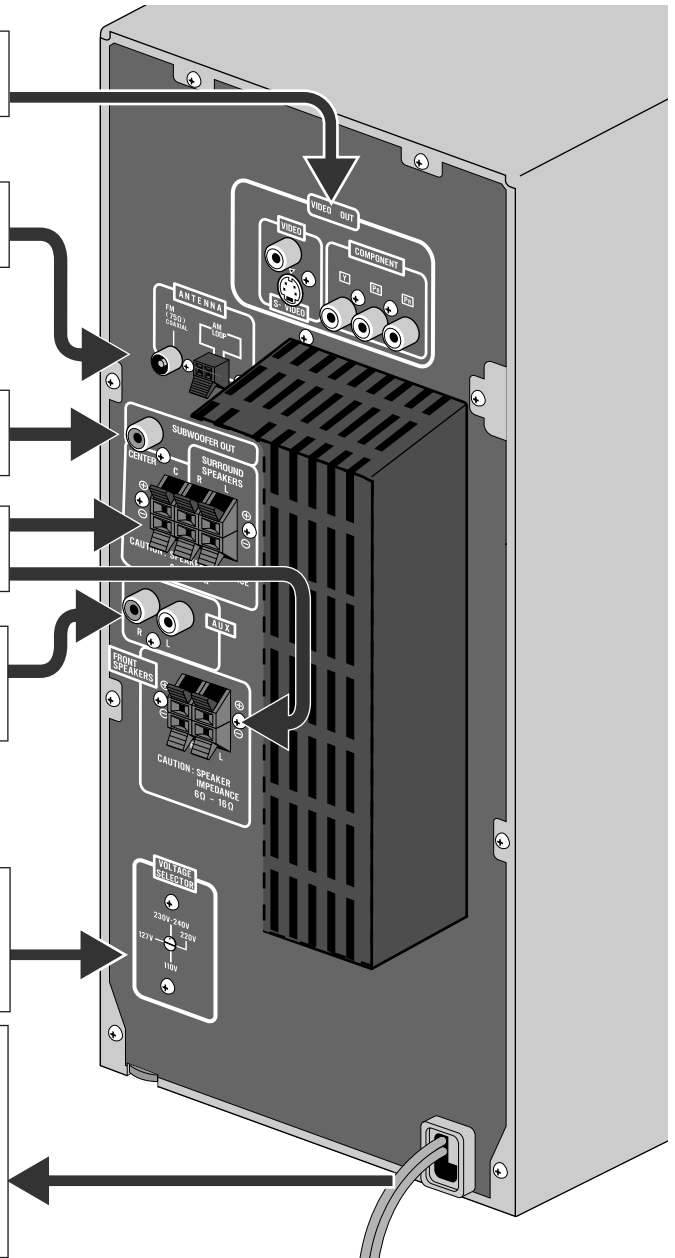
3 From the powered subwoofer
See page 4.

4 From the speakers
See page 5.

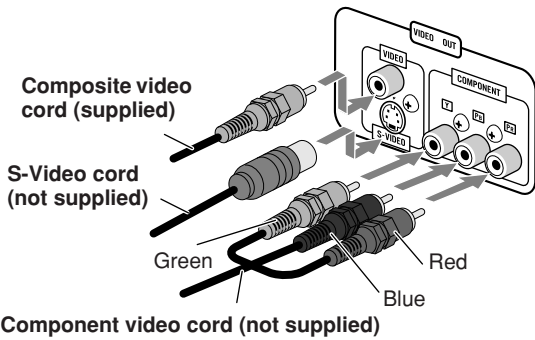
5 From the analog audio output of auxiliary equipment (VCR, etc.)
See page 5.

6 Voltage selector
(not applicable for Australian models)
Before plugging in, confirm the position the voltage selector points at. See page 5.

7 To a wall outlet
Plug the AC power cord only after all connections are complete.
• If the wall outlet does not match the AC plug, use the supplied AC plug adapter (not supplied for Australia, Thailand and the Middle East models).



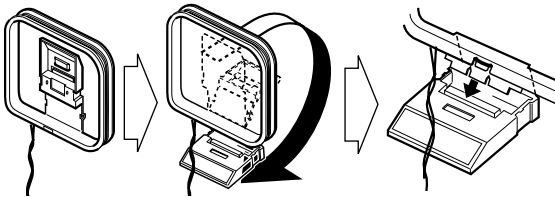
1 TV/monitor



- To select progressive scanning mode (see page 6), use COMPONENT jacks.
- Connect the VIDEO jack, S-VIDEO jack, or COMPONENT jacks; whichever you want to use.
- You can get better picture quality in the order—Composite video ⇒ S-Video ⇒ Component video.

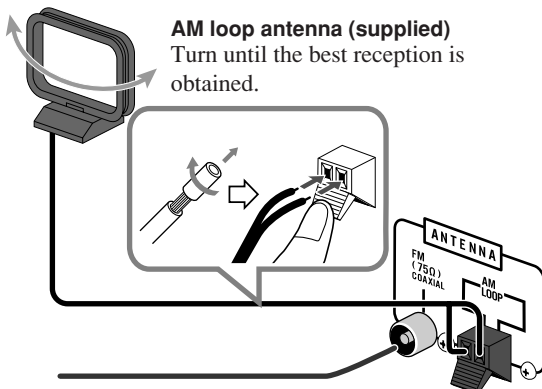
2 AM/FM antenna

To assemble the AM loop antenna

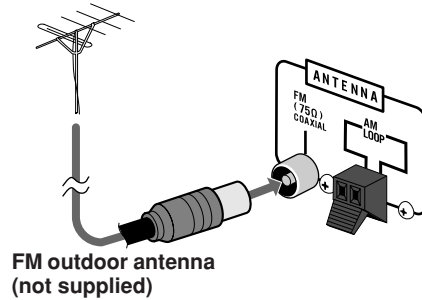


To connect AM/FM antenna

- If the antenna cord is covered with vinyl on the tip, twist and pull the vinyl off to remove.

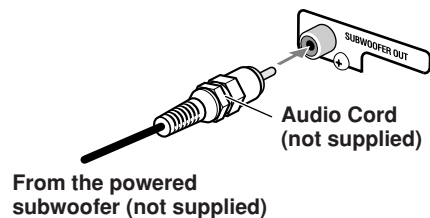


For better FM reception



- Disconnect the supplied FM antenna, and connect an outdoor FM antenna using a 75 Ω wire with coaxial type connector (IEC or DIN45325).
- Make sure the antenna conductors do not touch any other terminals, connecting cords or the 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.

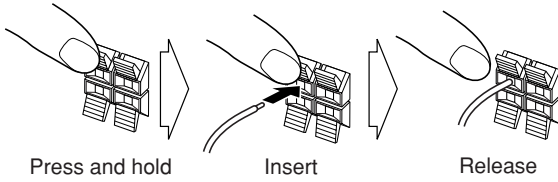
3 Powered subwoofer



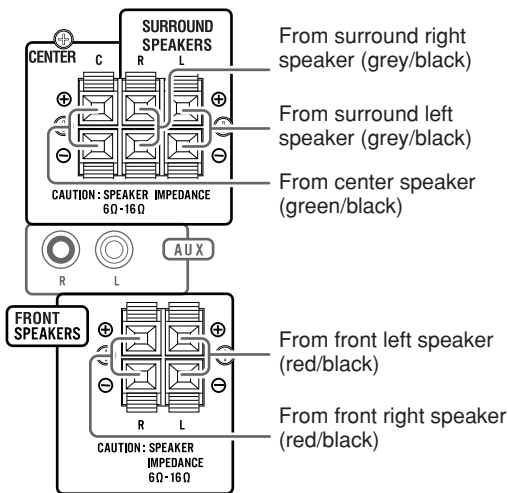
- Before plugging the powered subwoofer to the main unit, make sure that the powered subwoofer is turned off or at minimum volume.
- The subwoofer output level varies follow to the System master volume.

4 Speakers

To connect the speaker cords



- When connecting the speaker cords, match their polarity with that of the speaker terminals: red/grey/green to (+) and black to (-).

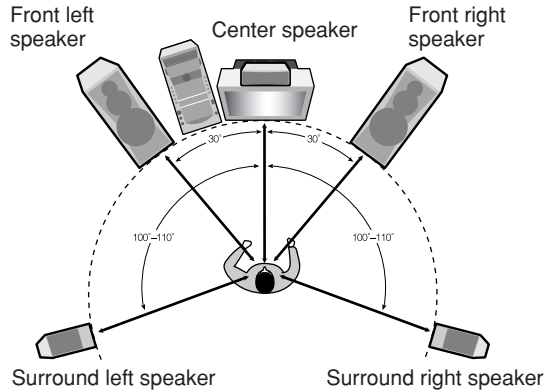


- Use only speakers with the same speaker impedance as indicated by the speaker terminals on the rear of the System.
- The front speakers and center speaker are magnetically shielded to avoid color distortions on TVs. However, if not installed properly, it may cause color distortions. So, pay attention to the following when installing the speakers.
 - When placing the speakers near a TV set, turn off the TV's main power switch or unplug it before installing the speakers.
 - Then wait at least 30 minutes before turning on the TV's main power switch again.

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

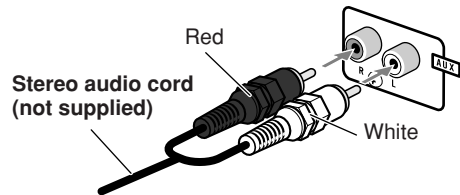
Speaker layout

To enjoy multi-channel sound, locate the speakers as follows. If you cannot locate like this, adjust the speaker setting by using the SPK. SETTING menu (see page 38).

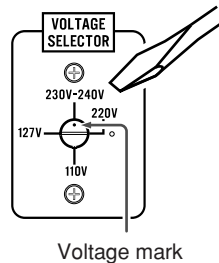


- DO NOT connect more than one speaker to each terminal.
- DO NOT push or pull the speakers as this will damage the foot spacers at the bottom of the speakers.

5 Auxiliary equipment



6 Voltage selector (Not applicable for Australian model)



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

7 Power cord

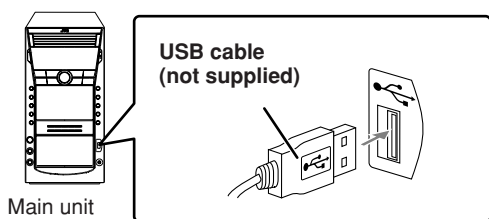
Plug the AC power cord to a wall outlet.



DO NOT plug in before setting the voltage selector and all connection procedures are completed.

Connecting a USB Mass Storage Class Device

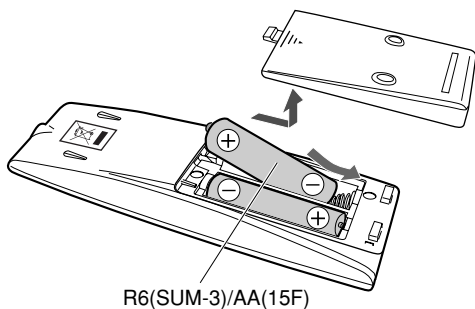
You can connect a USB mass storage class device such as a USB flash memory, hard disk drive, multimedia card reader, digital camera, etc. to this System.



- You cannot connect a personal computer to the (USB MEMORY) terminal of the System.
- When connecting with a USB cable, use the USB 2.0 cable whose length is less than 1m.

Preparing the Remote Control

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



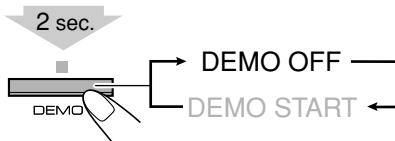
When using the remote control, point the top of the remote control toward the remote sensor as directly as possible. If you operate it from a diagonal position, the operating range (approx. 5 m) may be shorter.

- If the range of effectiveness of the remote control decreases, replace both batteries.

Caution:

Battery shall not be exposed to excessive heat such as sunshine, fire or the like.

Cancelling the Demonstration



DEMO OFF

To start the demonstration, select DEMO START.

Changing the Color System and Scanning Mode



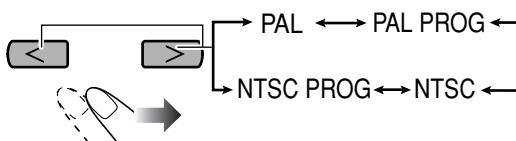
You can select the video output to match it to the color system of your TV (NTSC or PAL).

- If you connect a progressive TV through the COMPONENT jacks, you can enjoy a high quality picture by selecting progressive scanning mode.
- You can change the setting only while playback is stopped.

1 Enter the color system setting mode.



2 Select the color system and scanning mode.



NTSC / PAL

NTSC or PAL Interlaced scanning. For a conventional NTSC or PAL TV.

NTSC PROG/
PAL PROG

NTSC or PAL Progressive scanning. For a progressive NTSC or PAL TV.

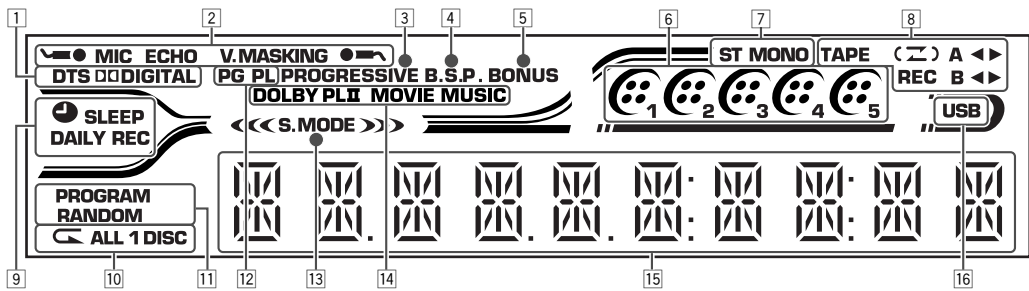
3 Store the setting.

ENTER/SET



Display Indication

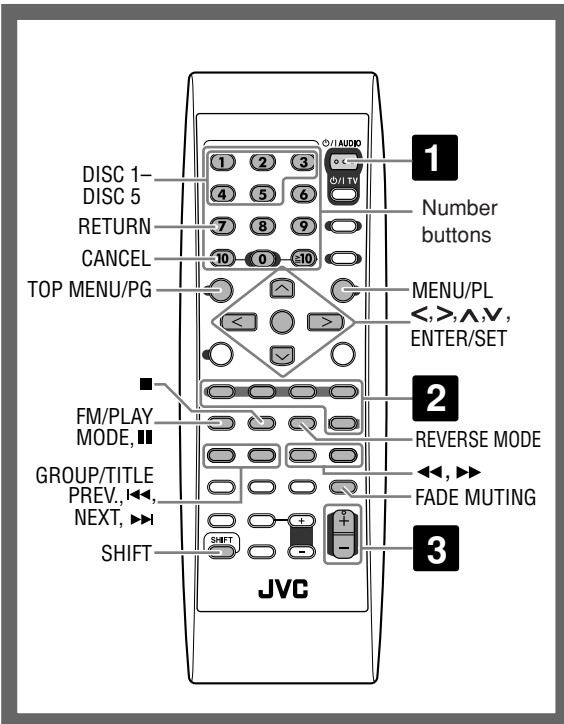
The indications on the display tell you a lot of things while you are operating the System. Before operating the System, be familiar with when and how the indicator illuminates on the display.



- 1 Source signal indicators
 - DTS: lights when DTS signals are detected.
 - DIGITAL: lights when Dolby Digital signals are detected.
- 2 Karaoke operation indicators
 - /MIC/: lights when Mic Mixing is activated; flashes when Karaoke Scoring is in use.
 - ECHO: lights when Echo is activated.
 - V.MASKING: lights when Vocal Masking is activated.
- 3 PROGRESSIVE indicator
 - Lights when the progressive scanning mode is selected.
- 4 B.S.P. indicator
 - Lights when browsable still pictures on DVD Audio are available.
- 5 BONUS indicator
 - Lights when DVD Audio with bonus group is detected.
- 6 Disc indicators
 - 1 – 5: lights to indicate the current disc tray.
 - : lights when a disc is detected on the disc tray; rotates during playback or pause.
- 7 FM reception indicators
 - ST (stereo): lights while an FM stereo station with sufficient signal strength is tuned in.
 - MONO: lights while receiving an FM stereo station in monaural.
- 8 Tape operation indicators
 - TAPE: lights when a tape is loaded in either deck A or B.
 - (Reverse Mode): indicates the current Reverse Mode.
 - A: lights when a tape is in deck A.
 - B: lights when a tape is in deck B.
 - (tape direction):
 - Lights to indicate the current tape running direction.
 - Flashes slowly during playback and recording.
 - Flashes quickly while rewinding a tape.
 - * indicator for deck A is available only when the tape is being rewinded.
 - REC: lights while recording.
- 9 Timer indicators
 - : lights when Daily Timer or Recording Timer is on standby, is working, or being set.
 - SLEEP: lights when the Sleep Timer is activated.
 - DAILY: lights when the Daily Timer is on standby; flashes while working or being set.
 - REC: lights when the Recording Timer is on standby; flashes while working or being set.
- 10 Repeat mode indicators
 - : lights when Repeat Play is activated.
 - ALL: lights when All File Repeat is activated (only for USB)
 - ALL DISC: lights when All Disc Repeat is activated.
 - 1 DISC: lights when One Disc Repeat is activated.
 - 1: lights when One Track/Chapter/File/Step Repeat is activated.
- 11 Play mode indicators
 - PROGRAM: lights when Program Play is activated.
 - RANDOM: lights when Random Play is activated.
- 12 PG/PL indicator
 - PG: lights when Original Program is selected for DVD-VR playback.
 - PL: lights when Play List is selected for DVD-VR playback.
- 13 Sound Mode/Surround Mode indicators
 - S.MODE: lights when one of the Sound Modes is activated.
 - : lights when one of the Surround Modes is activated.
- 14 Dolby Pro Logic II mode indicator
 - Lights when Dolby Pro Logic II (Movie or Music) is activated.
- 15 Main display
- 16 USB indicator
 - Lights when “USB” is selected as the source.

Daily Operations—Playback

In this manual, the operations using the remote control are 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 Led on the main unit goes off.

- Without pressing **⏻/I AUDIO**, the System also 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 playback.

- To listen to the sound of the external component, press **FM/AM/AUX** repeatedly to select “AUX” as the source, then start playback on the external component.

3 Adjust the volume.

To turn off (standby) the System

⏻/I AUDIO

The STANDBY Led on the main unit lights in red.



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

For private listening

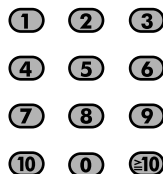
Connect a pair of headphones to the PHONES jack on the main unit. The sound will no longer come out of the speakers. **Be sure to turn down the volume before connecting or putting on the headphones.**

- Disconnecting the headphones will activate the speakers again.

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



How to select a number



To select 5, press 5.

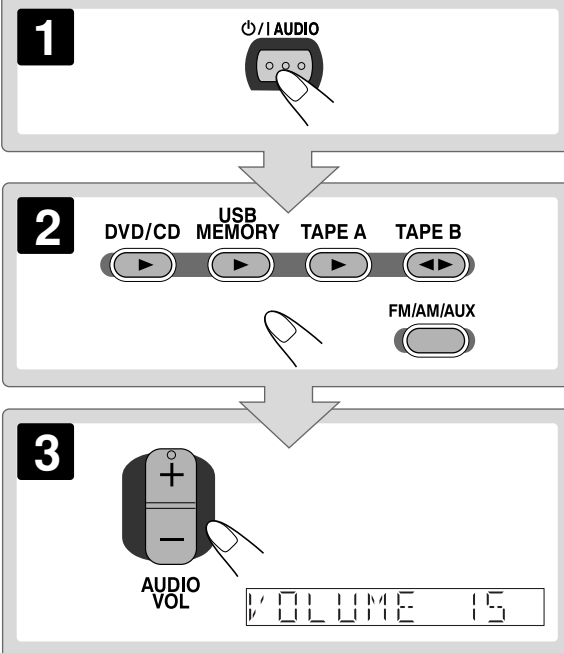
To select 10, press 10.

To select 15, press ≥ 10 , 1, then 5.

To select 30, press ≥ 10 , 3, then 0.

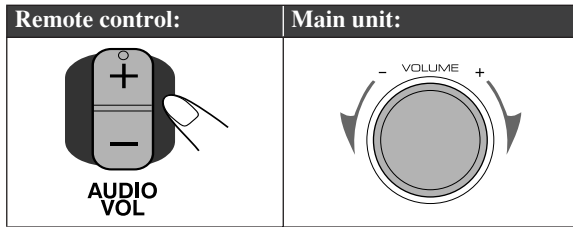
To select 125, press ≥ 10 , ≥ 10 , 1,

2, then 5.

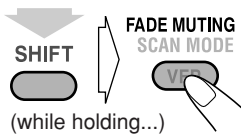


Adjusting the Volume

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



To drop the volume in a moment 



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

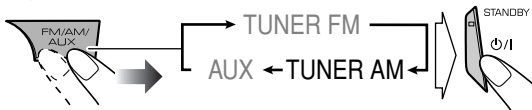
Listening to the Radio

INFO

To select the AM tuner interval spacing 

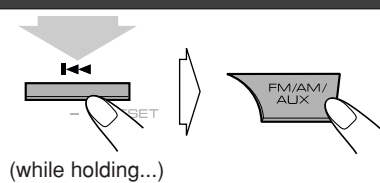
Some countries space AM stations 9 kHz apart, and other countries use 10 kHz spacing.

1 Select “TUNER AM,” then turn off (standby) the System.

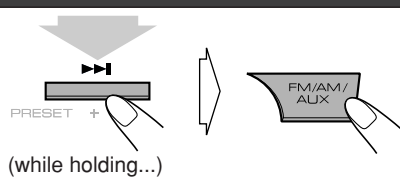


2 Select the AM tuner interval spacing.

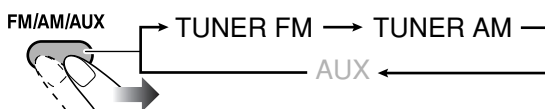
To select 9 kHz:



To select 10 kHz:

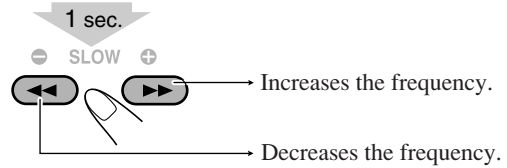


To select the band (FM/AM)



To tune in to a station

While FM or AM is selected...



Frequency starts changing on the display.

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

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

To manually stop the searching, press either button.

If the FM reception is poor 



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 stations 

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.

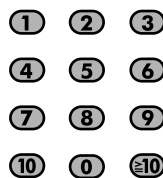
ENTER/SET



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

• To cancel the operation during procedure, press CANCEL while holding SHIFT.

3 Select a preset number for the station you store.



• To select a number, see “How to select a number” on page 8.

• You can also use >>>/<<< buttons.



4 Store the station.

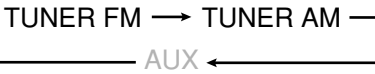
ENTER/SET



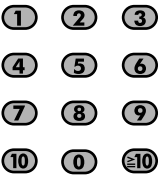
To tune in to a preset station

1 Select the band (FM or AM).

FM/AM/AUX



2 Select the preset number for the station you stored.



- To select a number, see “How to select a number” on page 8.
- You can also use ►►/◄◄ buttons.



Playing Back a Disc/USB Mass Storage

Class Device

INFO

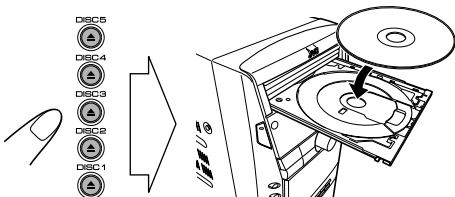
IMPORTANT: Before playing a disc/USB mass storage class device, make sure of the following...

- Turn on the TV and select an appropriate input mode on the TV to view the pictures or on-screen displays.
- For disc/USB mass storage class device playback, you can change the initial setting to your preference. See “Setup Menu Operations” on page 37.

If “” appears on the TV screen when you press a button, the disc/USB mass storage class device cannot perform the operation you have tried to do.

- For playback of AV files, see also “Operations Using the Control Screen” on page 27.

To insert discs

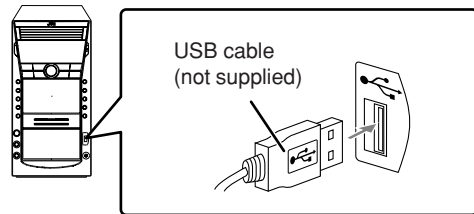


- When using an 8 cm disc, place it on the inner circle of the disc tray.

To close the disc tray, press the same button again.

- If you press for the same tray, the disc tray closes and playback starts automatically.

To connect a USB mass storage class device



- Always set the volume to the minimum level when connecting or disconnecting the USB mass storage class device.
- To disconnect the USB mass storage class device safely, turn off the System before disconnecting the device.

To play back disc/USB mass storage class device

To start:	
Disc DVD/CD 	USB mass storage class device USB MEMORY
Playback starts.	
To pause:	
FM/PLAY MODE 	To release it, press DVD/CD or USB MEMORY .
To stop:	

While playing, this System can store the stop point (not applicable for CD). When you start playback again by pressing DVD/CD or USB MEMORY , it starts from the position where you have stopped—Resume Play. (“RESUME” appears when you stop playback.)

To stop completely while Resume is activated, press twice. (To cancel Resume, see “RESUME” on page 38.)

On-screen guide icons

- During playback, the following icons may appear for a while on the TV screen:

Appears at the beginning of a scene containing multi-angle views.

Appears at the beginning of a scene containing multi-audio languages.

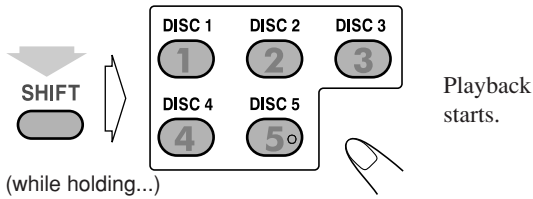
Appears at the beginning of a scene containing multi-subtitle languages.

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

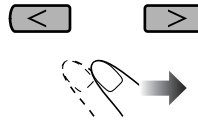


- To deactivate the on-screen guide icons, see “ON SCREEN GUIDE” in “OTHERS” menu on page 38.

To select a disc

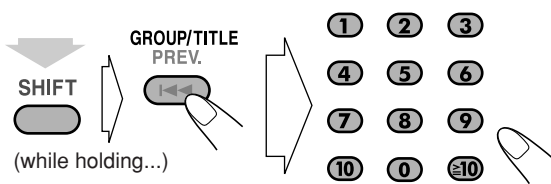


- For DivX files, each time you press the > or < button, you can skip to a scene of 30 seconds or 5 minutes away depending on the DivX file.



To select a title/group

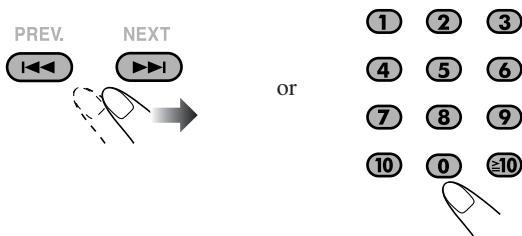
While playing...



- To select a number, see “How to select a number” on page 8.

To select a chapter/track

While playing...

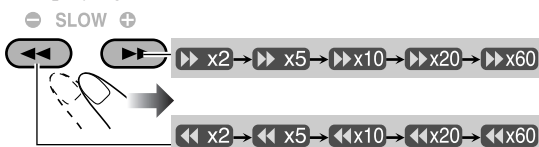


- The first time you press <<, you will go back to the beginning of the current chapter/track.
- To select a number, see “How to select a number” on page 8.

To locate a particular portion

- This does not function for JPEG files.

While playing...



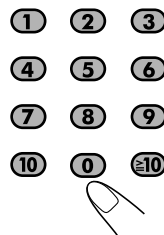
- Search speed changes as above for all discs/files except for MP3/WMA/WAV/DivX files. For MP3/WMA/WAV/DivX files, search speed is different.
- No sound comes out if searching is carried out while showing the moving picture.

- To return to normal playback, press DVD/CD ► or USB MEMORY ►.

To select an item directly

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

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



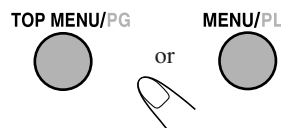
- To select a number, see “How to select a number” on page 8.

To play back by using the disc menu

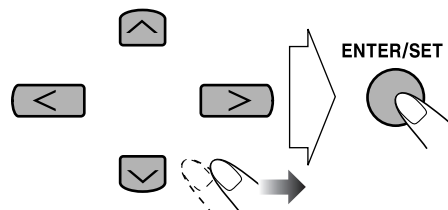
You can operate the disc play using the disc menu.

■ For DVD Video/DVD Audio

1 Show the disc menu.



2 Select an item on the disc menu.

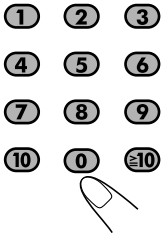


- On some discs, you can also select items by entering the number using the number buttons. To select a number, see “How to select a number” on page 8.

■ For SVCD/VCD with PBC

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

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



- To select a number, see "How to select a number" on page 8.

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

To cancel PBC, press ■, then press ►►.

- You can also cancel PBC by pressing ■, then pressing the number buttons. Playback starts with the selected track.

To reactivate PBC, press ■, then press ◀◀.

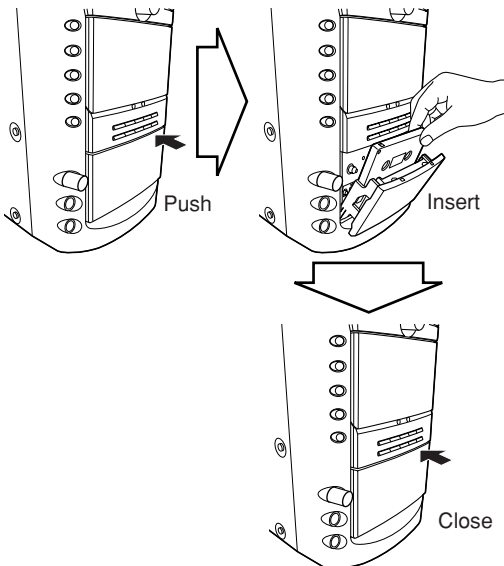
Playing Back a Tape ●●●●●●●●

To insert a tape

You can play back type I tapes.

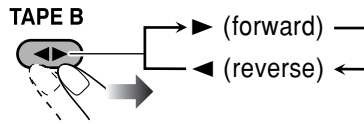
- The use of C-120 or longer tapes is not recommended.

Ex.: When using deck B.

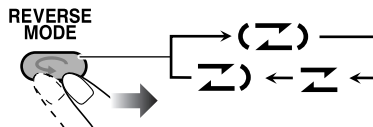


To start playback:	To stop:
To rewind or fast-forward tape:	

To change the tape running direction (deck B only)



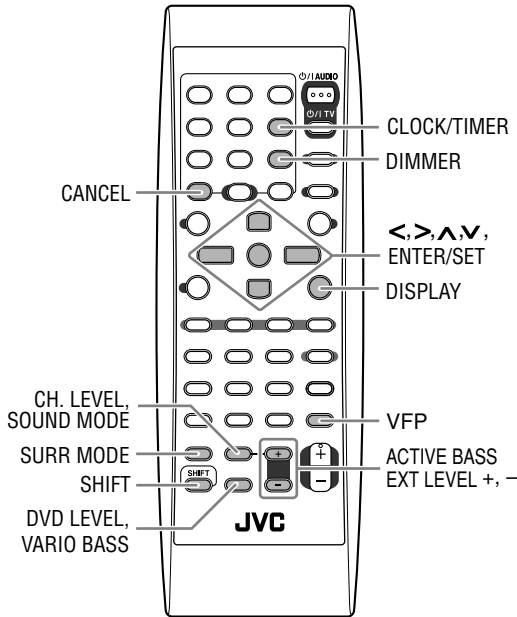
To reverse the tape automatically (deck B only)



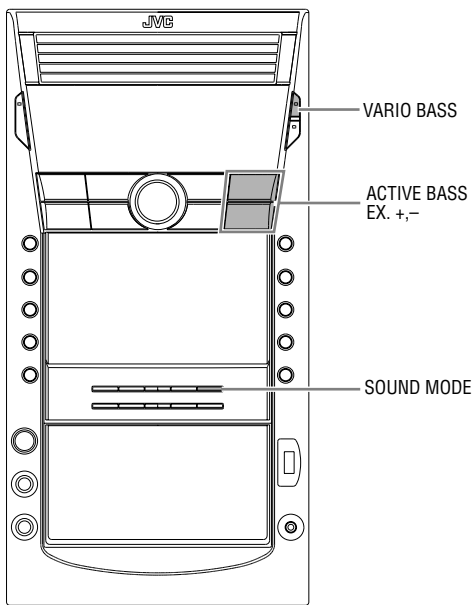
	Tape is reversed, and playback repeats until you stop it.
	Tape is not reversed. When the current side of the tape reaches its end, playback stops.
	Tape is reversed once.

Daily Operations—Sound & Other Adjustments

Remote Control



Main unit



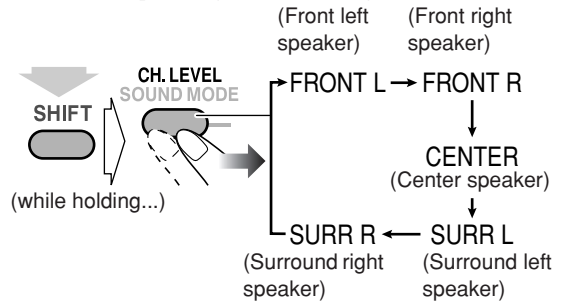
Adjusting the Speaker Output Level



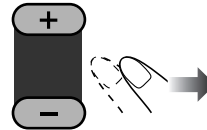
You can adjust the speaker output level from -6 (dB) to $+6$ (dB). Initial setting: $+4$ (dB).

- You can also use the setup menu to adjust the speaker output level (see page 38).
- The function is not available when the surround mode is set to "STEREO" or Mic Mixing is activated.

1 Select the speaker you want to adjust.



2 Adjust the output level while the display is showing speaker name.



ACTIVE BASS EXT LEVEL

3 Repeat steps 1 and 2 to adjust other speakers.

Reinforcing the Bass Sound



You can adjust the Active Bass level from level 1 (minimum) to level 4 (maximum). Initial setting: 4

- This function is not available when VARIO BASS is set to "OFF" or headphones are plugged in.



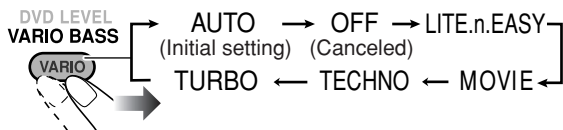
ACTIVE BASS EXT LEVEL



Applying an Optimal Bass Sound Effect

—VARIO BASS

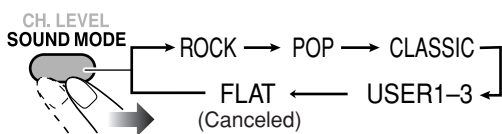
You can adjust bass sound characteristics to create a sound suitable for the playback source to your preference.



AUTO	The System automatically applies TURBO, LITE.n.EASY, MOVIE or TECHNO according to the playback source (initial setting).
LITE.n.EASY	Suitable for Karaoke and classical music. You can obtain a comfortable bass sound.
MOVIE	Suitable for a video source and playback of external component. You can obtain a strong bass sound.
TECHNO	Suitable for disco or techno music and playback of cassette tape. You can obtain a strong bouncy bass sound.
TURBO	Suitable for most kinds of music and playback of external component. You can obtain a balanced bass sound.

Selecting the Sound Modes

You can select one of the preset Sound Modes—SEA (Sound Effect Amplifier) mode.



ROCK	Boosts low and high frequency. Good for acoustic music (initial setting).
POP	Good for vocal music.
CLASSIC	Good for classical music.
USER1/2/3	Your individual mode stored in memory. See the next column “Creating Your Own Sound Modes—User Mode.”

- While one of the Sound Modes is activated, S.MODE indicator lights up.

To cancel the Sound Mode, select “FLAT.”

Creating Your Own Sound

Modes—User Mode

You can adjust the preset Sound Modes to create your own Sound Modes which suit your taste. The changed settings can be stored as the USER1, USER2 and USER3 Modes.

While “USER1,” “USER2” or “USER3” is shown on the display...

1

ENTER/SET



2 Select the SEA parameter you want to adjust.

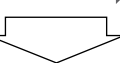
- ① Adjust BASS.
- ② Adjust MID (Mid-range).
- ③ Adjust TRE (Treble).



3 Adjust the parameter.



BASS +3

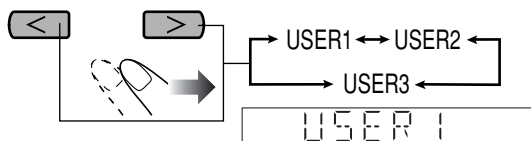


ENTER/SET



- You can adjust the bass, mid and treble level from -3 to +3.
- Repeat steps 2 and 3 to adjust the other parameters.

4 Select one of the User Modes.



5 Store the setting.

ENTER/SET

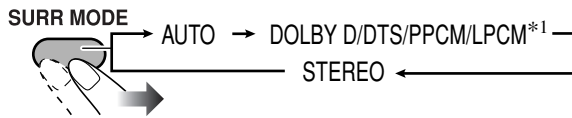


MEMORY

- You can adjust the SEA pattern temporarily by doing the operations in steps 1 to 3. The adjustment is cleared when you change the sound mode to another mode.

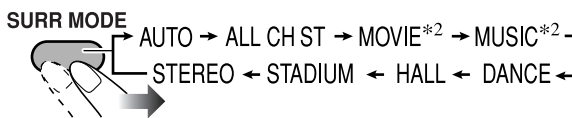
Selecting the Surround Modes INFO

- For “DVD/CD” and “USB” (multi-channel software):



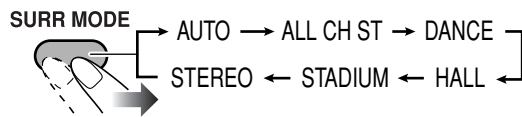
Initial setting: DOLBY D/DTS/PPCM/LPCM*1

- For “DVD/CD” and “USB” (stereo software):



Initial setting: ALL CH ST

- For “TUNER AM” and “TUNER FM”, “TAPE” and “AUX”:



Initial setting: ALL CH ST

DSP Modes	
ALL CH ST	All Channel Stereo; Creates larger stereo sound field using all the connected speakers.
DANCE	Increases resonance and bass.
HALL	Adds depth and brilliance to the sound.
STADIUM	Adds clarity and spreads the sound, as in an outdoor stadium.
Stereo Mode	
STEREO	Cancels the Surround Mode.
Auto Surround Mode	
AUTO	The System automatically selects an appropriate Surround Mode or Stereo Mode according to the incoming signals. For example, a multi-channel source is automatically reproduced in an appropriate Multi-channel Surround Mode.
Multi channel Surround Modes*1	
DOLBY D	For multi-channel encoded Dolby Digital source.
DTS	For multi-channel encoded DTS source.
PPCM	For multi-channel encoded PPCM (Packed PCM) source.
LPCM	For multi-channel encoded LPCM (Linear PCM) source.
Dolby Pro Logic II Modes	
MOVIE	Creates 5.1-channel surround field from 2-channel source (suitable for movie source).
MUSIC	Creates 5.1-channel surround field from 2-channel source (suitable for music source).

- While one of the Surround Modes is activated, “<<<>>>” lights up.

*1 Selectable Surround Mode varies depending on the software.

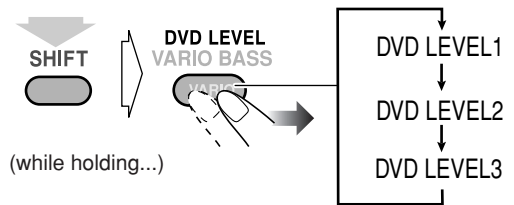
*2 MOVIE (Dolby Pro Logic II Movie) and MUSIC (Dolby Pro Logic II Music) cannot be used for DivX file.

Presetting Automatic DVD Video

Sound Increase Level Remote ONLY >>>

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

- This function is available only for DVD Video discs.



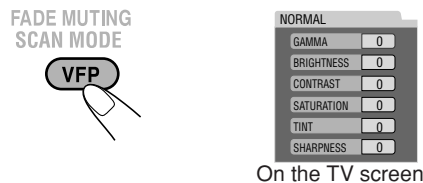
- As the number increases, sound level also increases.
- The initial setting is “DVD LEVEL3.”

Changing the Picture Tone Remote ONLY >>>

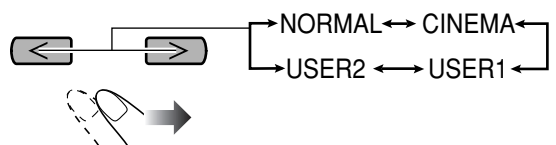
While viewing a playback picture on the TV, you can select the preset picture tone, or adjust it and store your own preference.

To select a preset picture tone

- 1 While playing, display VFP setting screen.



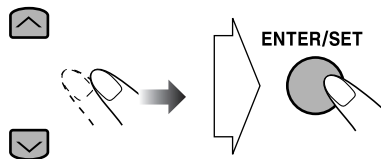
- 2 Select a preset picture tone.



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

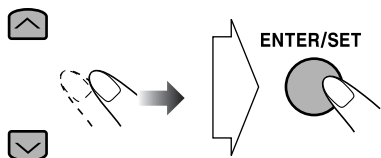
To adjust the picture tone

- 1 Select "USER1" or "USER2."
 - Follow steps 1 and 2 on page 15.
- 2 Select a parameter you want to adjust.



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

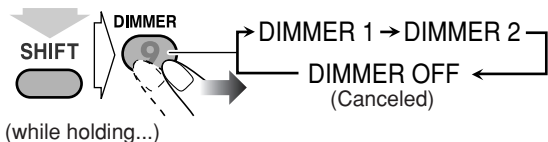
- 3 Adjust the parameter.



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

To erase the VFP screen, press VFP again.

Changing the Display Brightness



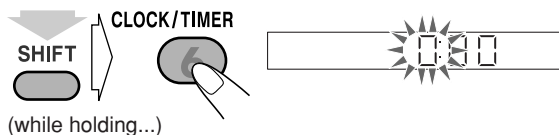
DIMMER 1	Dims the display.
DIMMER 2	Dims the display more than DIMMER 1.

Setting the Clock

Without setting the built-in clock, you cannot use any timers except the Sleep timer.

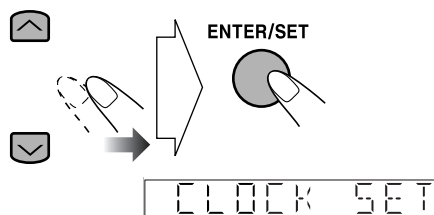
- To exit from the clock setting, press CLOCK/TIMER as required.
- To correct a misentry during the process, press CANCEL while holding SHIFT. You can return to the previous step.

- 1 Activate clock setting mode.



- If you have already adjusted the clock before, press the button repeatedly until the clock time starts flashing.

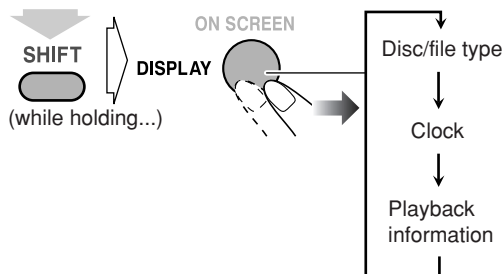
- 2 Adjust the hour, then minute.



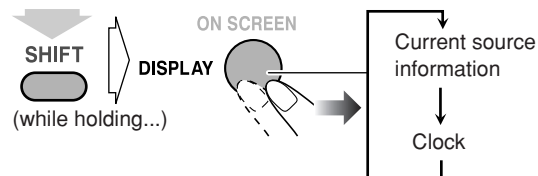
Now the built-in clock starts working.

To display the clock during playback

For "DVD/CD" and "USB MEMORY":

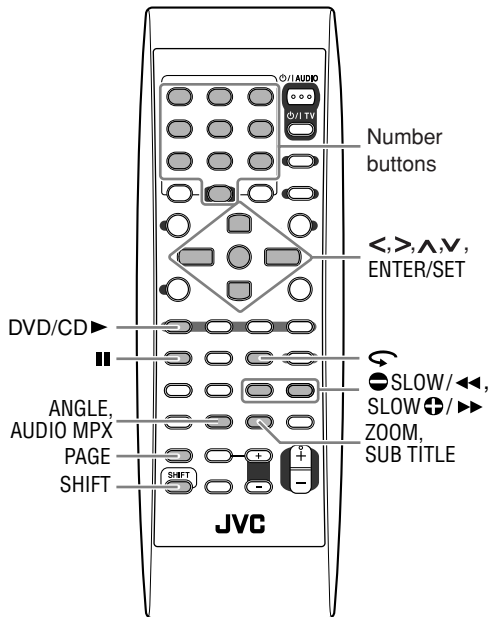


For "TAPE," "TUNER FM," "TUNER AM" and "AUX":



Unique Video Disc/File Operations

Remote Control



Selecting the Audio Track



For DVD Video/DivX: While playing back a chapter/file 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.

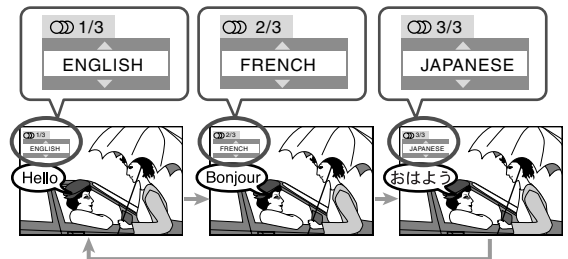
For DVD-VR/SVCD/VCD: While playing back a chapter/track, you can select the audio channel to play.

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

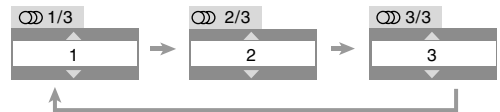


While playing DVD Video...

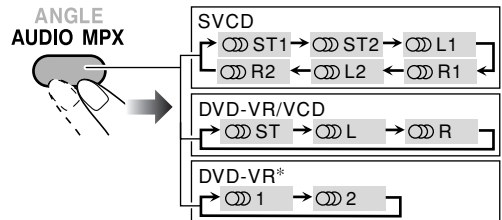
Ex.:



While playing a DVD Audio/DivX...



While playing a DVD-VR, 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.

- * Example: when two multi-channel streams are recorded.
- SVCD can have 4 audio channels. SVCD usually uses these 4 channels to record two 2-channel recordings (ST1/ST2).

Selecting the Subtitle Language

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

For DVD-VR: While playing, you can turn the subtitle on or off.

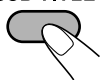
For SVCD: While playing, the SUB TITLE button functions even if no subtitles are recorded on the disc.

- You can also select the subtitle language using the on-screen bar (see page 24).

While playing a DVD Video/DivX...

1 Display the subtitle selection window.

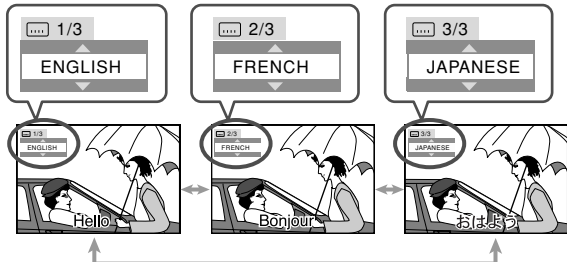
ZOOM
SUB TITLE



2 Select the subtitle language.



Ex.:



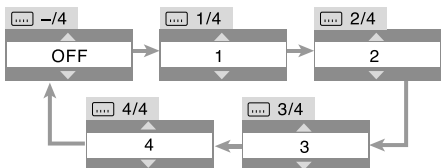
While playing a DVD-VR...

ZOOM
SUB TITLE



While playing an SVCD...

ZOOM
SUB TITLE



Selecting the View Angle

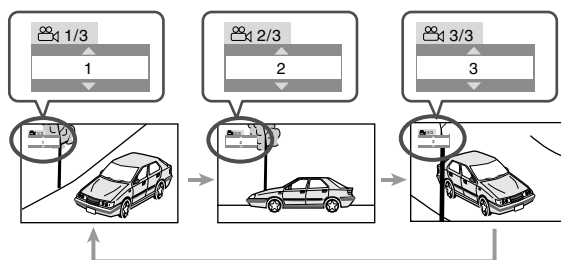
For DVD Video/DVD Audio only: While playing back a chapter containing multi-view angles, you can view the same scene from different angles.

- You can also select the view angle using the on-screen bar (see page 24).

While playing...



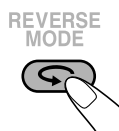
Ex.:



Reviewing the Playback Quickly

For DVD Video/DVD-VR only: You can move back the playback position by 10 seconds (only within the same title/program)—Glance Back.

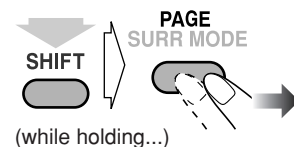
While playing...



Selecting Browsable Still Pictures

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

- If a track is linked to browsable still pictures (B.S.P.), they are usually shown in turn automatically during playback.
- You can also select the “page” using the on-screen bar (see page 24).



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

Playing Back Bonus Group

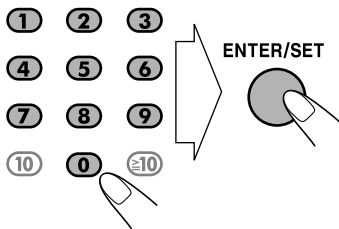
For DVD Audio only: Some DVD Audio discs have a special group called “bonus group” whose contents are not open to the public.

- 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 11.

2 Enter the key number.



3 Follow the interactive instruction shown on the TV screen.

To cancel the key number entry, press ■.

Special Picture Playback

Still picture playback

While playing...



Still picture appears.

To resume normal playback, press DVD/CD ► or USB MEMORY ►.

Frame-by-frame playback

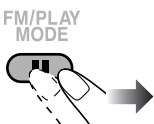
- This function is not available for ASF file.

1 While playing...



Playback pauses.

2 Advance the still picture frame by frame.



To resume normal playback, press DVD/CD ► or USB MEMORY ►.

Slow-motion playback

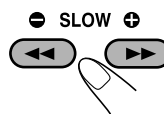
- This function is available only for moving picture files except MPEG-1/MPEG-2/ASF/DivX.

1 While playing...



Still picture appears.

2 Start slow-motion playback.



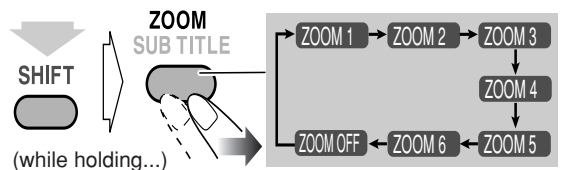
* Only for DVD Video.

To resume normal playback, press DVD/CD ►.

Zoom

- For JPEG/ASF files, see page 28.

While playing...



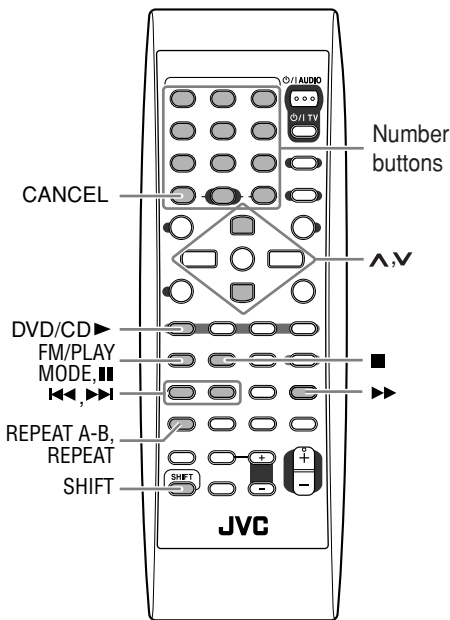
As the number increases, magnification also increases.

- You can move the zoomed-in area by pressing <, >, ^, v.

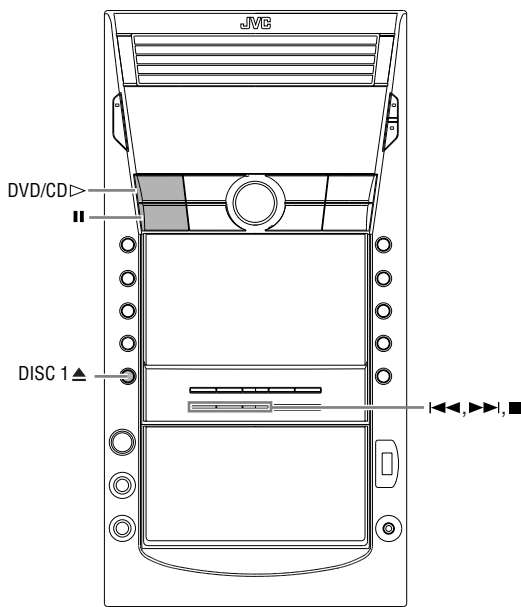
To cancel Zoom, press ZOOM repeatedly until “ZOOM OFF” appears on the TV screen.

Advanced Playback Operations

Remote Control



Main unit



Programming the Playing Order

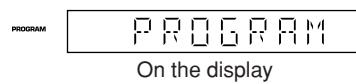
—Program Play



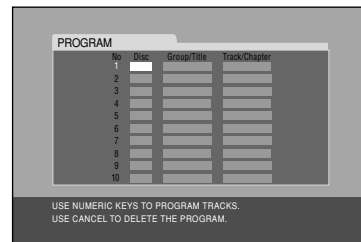
You can arrange the playing order of the chapters/tracks/files (up to 99) before you start playback.

- Program Play cannot be used for files in a USB mass storage class device, Video files/JPEG files on a disc and DVD-VR.

1 Before starting playback, activate Program Play.



On the display



On the TV screen

2 Select chapters/tracks/files you want for Program Play.

- ① Select a disc number.
- ② For DVDs and Audio files only: Select a group/title number.
- ③ Select a track/chapter number.

- To select a number, see “How to select a number” on page 8.

3 Repeat step 2 above until you complete your program.

4 Start playback.

DVD/CD



Playback starts in the order you have programmed.

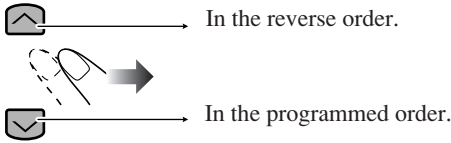


To skip:	To pause:	To stop*:
	<p>To release, press DVD/CD ►.</p>	

* Resume does not work for Program Play.

To check the programmed contents

Before or after playback...



To modify the program

Before or after playback...

To erase the last step:	To erase the entire program:
<p>(while holding...)</p>	
To add steps in the program: Repeat step 2 on page 20.	

To exit from Program Play

Before or after playback...

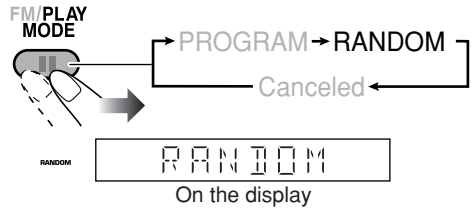


Playing at Random—Random Play

You can play the contents of all the loaded discs at random.

- Random Play cannot be used for files in a USB mass storage class device, Video files/JPEG files on a disc, DVD-VR and some DVDs.

1 Before starting playback, activate Random Play.



2 Start playback.

DVD/CD



Playback of the current disc starts in a random order. When all chapters/tracks on the current disc are played, playback of the next disc starts. Random Play ends when all loaded discs are played.

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

To exit from Random Play

Before or after playback...



Playing Repeatedly—Repeat Play

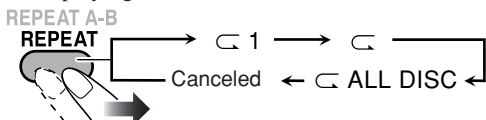
You can repeat playback.

- You can also select the repeat mode using the on-screen bar (See page 25. Not applicable for AV files and JPEG file.)
- For Video file/JPEG file and DVD-VR, see page 28.
- The indicator(s) lights on the display as follows to indicate the current repeat mode.

Repeat Play

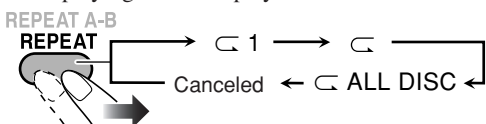
• For DVD Video:

While playing...



• For DVD Audio:

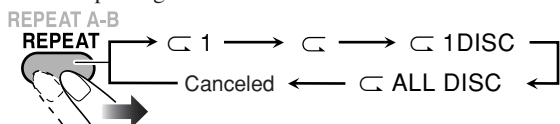
While playing or before playback...



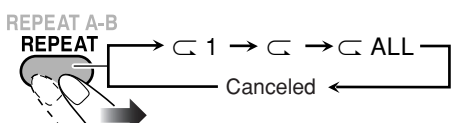
• For Audio files (MP3/WMA/WAV):

While playing or before playback...

– When repeating Audio files on disc:

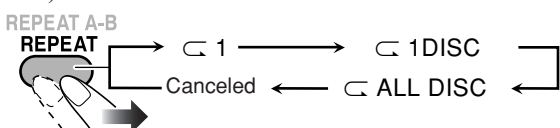


– When repeating Audio files in a USB mass storage class device:



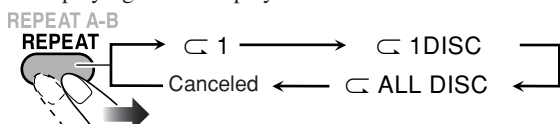
• For CD/SVCD/VCD:

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



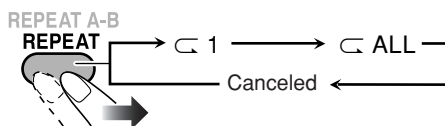
• For Random Play:

While playing or before playback...



• For Program Play:

While playing or before playback...



1	Repeats the current chapter/track/file/step.
ALL	Repeats the current title/group/program.
1 DISC*	Repeats the current disc.
ALL DISC*	Repeats all discs.
ALL	Repeats all files in a USB mass storage class device or all programmed chapters/tracks/files.

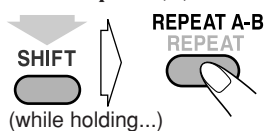
*These modes may not work correctly for DVDs.

A-B Repeat

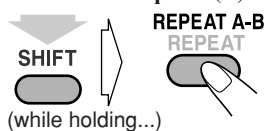
You can repeat playback of a desired portion by specifying the beginning (point A) and the ending (point B).

- A-B Repeat cannot be used for AV files and some DVDs.

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



2 Select the end point (B).



- You can search for the end point using the button.

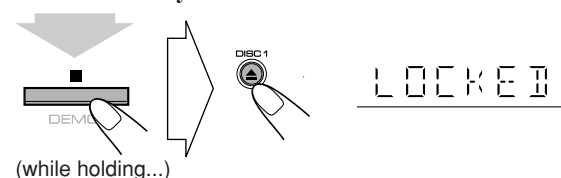
To cancel A-B Repeat, press REPEAT A-B again.

- A-B Repeat will also be canceled when you stop play or skip the chapter or track.

Prohibiting Disc Ejection—Child Lock

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

While on standby...

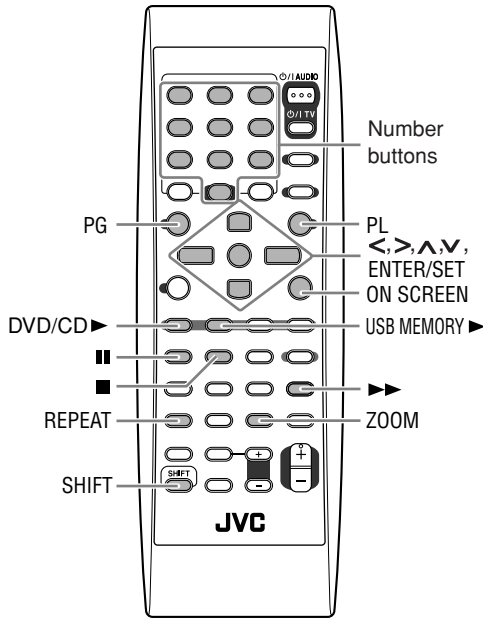


To cancel the prohibition, repeat the same procedure.

“UNLOCKED” appears on the display.

On-Screen Operations

Remote control

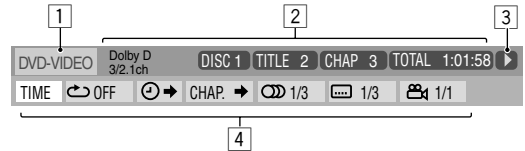


On-screen Bar Information

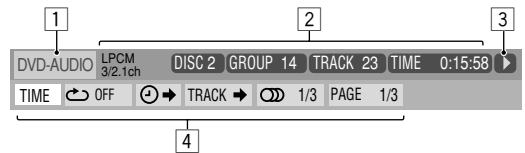
You can check the playback information and use some functions through the on-screen bar. (Not applicable for Audio files and JPEG files.)

On-screen bars

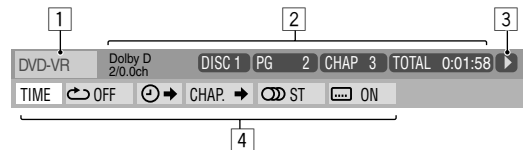
DVD Video



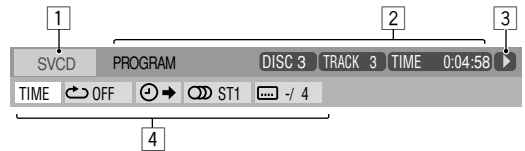
DVD Audio



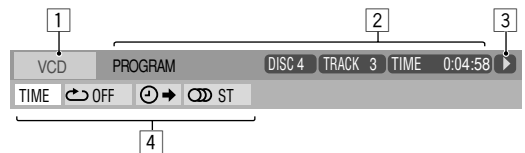
DVD-VR



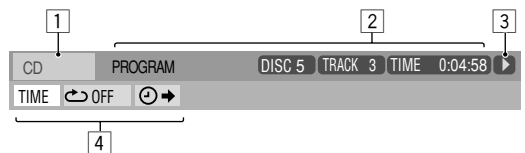
SVCD



VCD



CD



Video file on a disc—MPEG-1/MPEG-2/ASF/DivX file



Video file in a USB mass storage class device—MPEG-1/MPEG-2/ASF/DivX file



1 Disc type/source type

2 Playback information

Indication Meanings

Dolby D/
DTS/LPCM/
PPCM Audio format

3/2.1 ch/
2/0.0 ch Channel number

PROGRAM/
RANDOM Current play mode

DISC 1 Current disc

TITLE 2 Current title

CHAP 3 Current chapter

GROUP 1 Current group

TRACK 14 Current track

PG 2 Current program

PL 2 Current play list

TOTAL 1:25:58 Time indications

3 Playback conditions

Indication Meanings

Playback

Forward/Reverse search

Forward/Reverse slow-motion

Pause

Stop

4 Operation icons (on the pull-down menu)

Indication Meanings

TIME Select to change the time indication (see also page 25).

Select to repeat playback (see also pages 25).

Select for time search (see also page 26).

CHAP. → Select for chapter search (see also page 26).

TRACK → Select for track search (see also page 26).

1/3 Select to change the audio language or channel (see also page 17).

1/3 Select to change subtitle language (see also page 18).

1/3 Select to change view angle (see also page 18).

PAGE 1/15 Select to change the page (see also page 18).

5 Repeat Play setting for video files (See also page 28)

Operations Using the

On-screen Bar



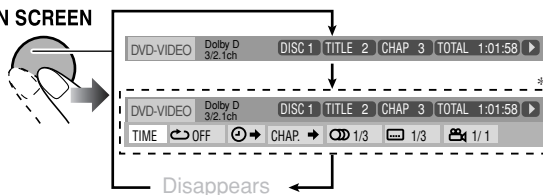
Basic operation procedures through the on-screen bar are as follows:

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.

ON SCREEN



* This does not appear for Video files.

2 Select (highlight) the item you want.

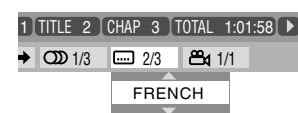


3 Display the pop-up window.

ENTER/SET



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



5 Finish the setting.

ENTER/SET Pop-up window disappears.



To erase the on-screen bar, press ON SCREEN again.

To change the time information

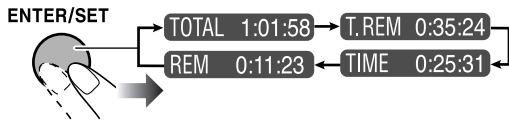
You can change the time information in the on-screen bar and the display window on the main unit.

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 time of the current disc/title.
TIME*	Elapsed playing time of the current chapter/track.
REM*	Remaining time of the current chapter/track.

*Not applicable for DVD-VR.

Repeat Play

- For Audio files, see also page 22.
- For Video files and JPEG file, see page 28.

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

- All discs except DVD: Repeat Play can be selected before starting playback.

2 Select .

3 Display the pop-up window.



4 Select the repeat mode you want.

ALL	Repeats all discs or all programmed tracks.
A-B	Repeats a desired portion (see below).
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.
PG	Repeats the current program (for DVD-VR only). See also page 28.
PL	Repeats the current play list (for DVD-VR only). See also page 28.
OFF	Cancels Repeat Play.

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

5 Finish the setting.

ENTER/SET



Pop-up window disappears.

A-B Repeat

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

2 Select .

3 Display the pop-up window.



4 Select "A-B."



5 Select the start point (A).

ENTER/SET



- After selecting the starting point (A), you can search for the end point using .

6 Select the end point (B).

ENTER/SET



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

To cancel A-B Repeat, repeat steps 1 to 3, and select “OFF” in step 4.

Time Search

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

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

- All discs except DVD: Time Search can be used before starting playback.

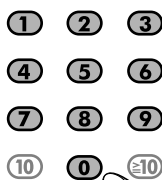
2 Select .

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 < to erase the last entry.

5 Finish the setting.

ENTER/SET



The System starts playing from the specified time.

Chapter/Track Search

You can search for the number of the item to play.

For DVD Video/DVD-VR: Chapter

For DVD Audio: Track

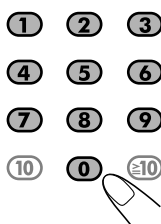
1 While playing a disc, display the on-screen bar with the pull-down menu.

2 Select or .

3 Display the pop-up window.



4 Enter the desired chapter/track number.



Examples:

To select 5, press 5.

To select 15, press 1, then 5.

To select 30, press 3, then 0.

- To correct a misentry, press the number buttons until the desired number is shown in the pop-up window.

5 Finish the setting.

ENTER/SET



The System starts playing the searched chapter or track.

Operations Using the Control

Screen



For DVD-VR, JPEG file and AV files: You can search for and play the desired items through the control screen.

Control screen for DVD-VR

The control screen is superimposed on the TV screen when you call up Original Program (PG) or Play List (PL) screens.

To select playback type

To select the Original Program:	To select the Play List:
<p>TOP MENU/PG</p>	<p>MENU/PL</p>

When Original Program screen is superimposed.

ORIGINAL PROGRAM				
No	Date	Ch	Time	Title
1	25/04/07	4ch	19:00	JVC DVD World 2004
2	17/05/07	8ch	10:30	
3	22/05/07	8ch	17:00	Music Festival
4	26/05/07	L-1	13:19	children 001
5	20/06/07	4ch	22:00	
6	25/06/07	L-1	8:23	children 002

When Play List screen is superimposed.

PLAY LIST				
No	Date	Chap	Length	Title
1	25/05/07	001	1:03:16	My JVC World
2	17/06/07	005	1:35:25	
3	20/06/07	003	0:10:23	Favorite music
4	25/06/07	001	0:07:19	children001-002

- ① Program/Play list number
- ② Recording date
- ③ Recording source (TV station, the input terminal of the recording equipment, etc.)
- ④ Start time of recording
- ⑤ Title of the program/play list*
- ⑥ Highlight bar (current selection)
- ⑦ Creating date of play lists
- ⑧ Number of chapters
- ⑨ Playback time

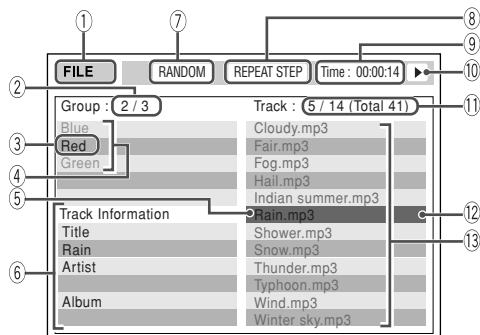
*The title of the original program or play list may not be displayed depending on the recording equipment.

To remove the control screen, press ENTER/SET.

Control screen for AV files/JPEG files

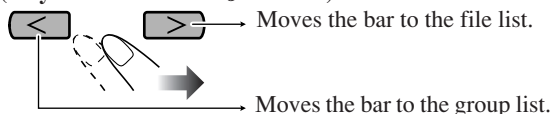
The control screen automatically appears on the TV screen when the System detects Audio files on the loaded disc or connected USB mass storage class device. (For Video files/JPEG file; it appears when playback is stopped.)

Ex.: While playing an MP3 file on a disc.



- ① Current source
FILE: Current source is "DVD/CD."
USB: Current source is "USB."
- ② Current group number/total group number
- ③ Current group
- ④ Group list
- ⑤ Current file
- ⑥ File information (only for MP3/WMA/WAV file)
- ⑦ Play mode information (RANDOM or PROGRAM. Not applicable for USB mass storage class device.)
- ⑧ Repeat Play setting
- ⑨ Elapsed playing time of the current file (Not applicable for JPEG file)
- ⑩ Operation Status icon
- ⑪ Current file number/total number of files in the current group (total number of files on the current disc/USB mass storage class device)
- ⑫ Highlight bar (Current selection)
- ⑬ File list
 - If different types of files (Audio files, Video files and Still picture files) are recorded on a disc/USB mass storage class device, select the file type to play (see page 37).

To move the highlight bar between group list and file list (only for AV files and JPEG file):




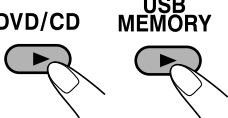

To select an item in the list:



Move the highlight bar to the desired item.

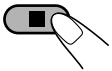
- If you move the highlight bar while playing back DVD-VR or Audio files, the selected item starts playback automatically.

To start playback

For JPEG file:	
ENTER/SET 	The selected file (still picture) is displayed until you change it.
DVD/CD USB MEMORY 	Slide-show playback starts. Each file (still picture) is shown on the screen for a few seconds, then changes one after another.
For the other files:	
ENTER/SET 	Playback starts with the selected chapter/file. <ul style="list-style-type: none"> Pressing DVD/CD ► or USB MEMORY ► also starts playback.

- Once you start viewing a JPEG file or Video file, the control screen disappears.
- To cancel slide-show for JPEG file, and display the current still picture, press **II**.

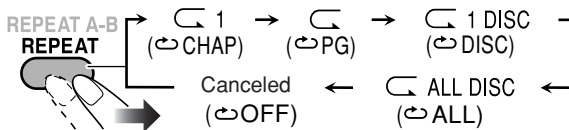
To stop playback



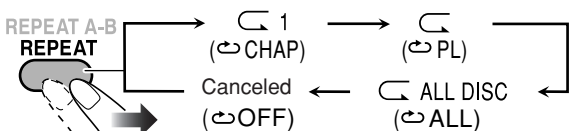
To repeat chapter/program/play list for DVD-VR

While playing or before starting playback...

For Original Program



For Play List



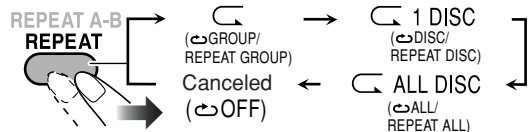
1*	Repeats the current chapter.
*	Repeats the current program/play list.
1 DISC*	Repeats all programs on the current disc.
ALL DISC	Repeats all loaded discs.

*Not available before starting playback.

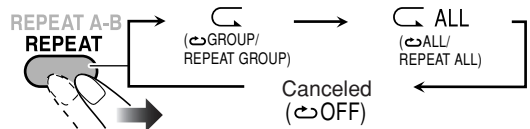
To repeat slide-show for JPEG file

While playing or before starting playback...

- When repeating JPEG file on disc:



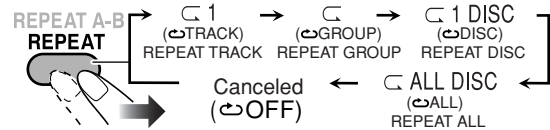
- When repeating JPEG file in a USB mass storage class device:



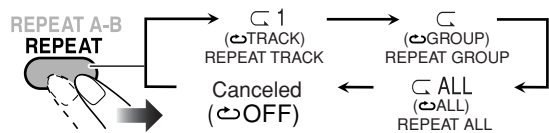
To repeat play for Video files

While playing or before starting playback...

- When repeating Video file on disc:



- When repeating Video file in a USB mass storage class device:



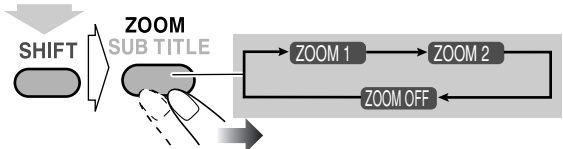
1	Repeats the current file.
*	Repeats the current group.
1 DISC	Repeats all files on the current disc.
ALL	Repeats all files in the USB mass storage class device.
ALL DISC	Repeats all loaded discs.

- For Repeat Play of Audio file, see page 22.

To zoom in the JPEG/ASF file

While playing...

- During slide-show for JPEG file, press **II** to display the still picture, then...



(while holding...)

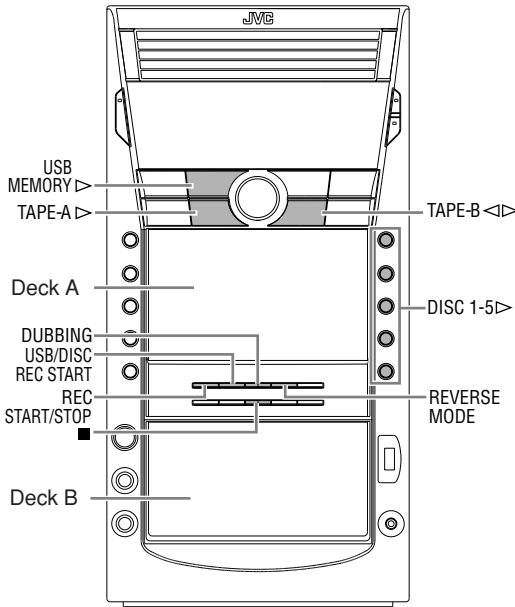
As the number increases, magnification also increases.

- You can move the zoomed-in area by pressing **<**, **>**, **▲**, **▼**.

To cancel Zoom, press ZOOM repeatedly until "ZOOM OFF" appears on the TV screen.

Recording Operations

Main unit



IMPORTANT

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

Before recording, select the Stereo Mode (“STEREO”—see page 15) for multi-channel encoded software to downmix its multi-channel sound; otherwise, you can only record the front left/right sound onto a tape.

- The channel level setting (see page 13 and 38) affects the recording.

Recording onto a Tape

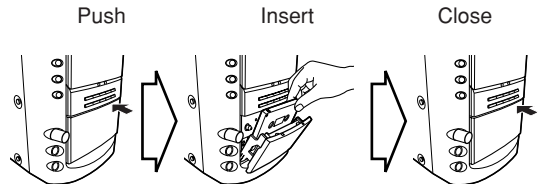


INFO

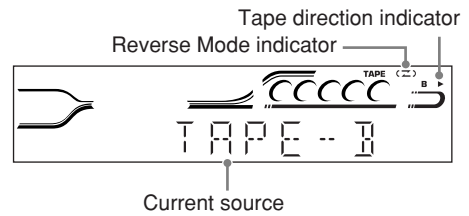
You can use type I tapes for recording.

- To play a tape, see page 12.

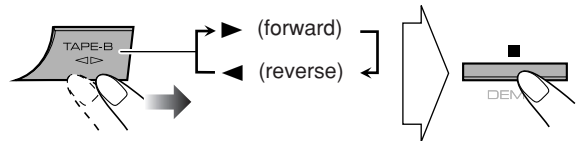
1 Insert a recordable cassette into deck B.



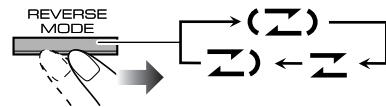
2 Check the tape running direction and Reverse Mode settings on the display.



To change the direction



Change the Reverse Mode if necessary



	To record on both sides.
	<ul style="list-style-type: none"> • When using Reverse Mode, start recording in the forward (▶) direction.
	To record on only one side.

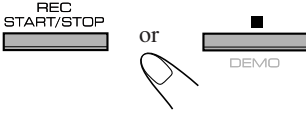
3 Start playing the source—“TUNER FM,” “TUNER AM,” “DVD/CD,” “USB,” “TAPE-A” or “AUX.”

- When recording from a disc/USB mass storage class device, you can also use “Synchronized Recording” (see page 30).
- When recording from deck A, you can also use “Dubbing” (see “Dubbing Tapes” on page 30).

4 Start recording.



To stop recording

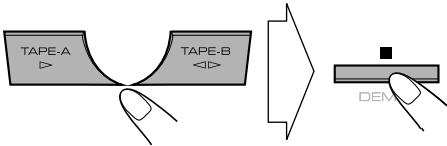


Dubbing Tapes



You can record a tape from deck A to deck B.

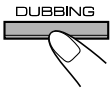
1 Change the source to "TAPE."



2 Insert the source cassette in deck A, and a recordable cassette in deck B.

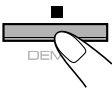
3 Check the tape running direction on the display. See step 2 of "Recording onto a Tape" on page 29.

4 Start dubbing.



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

To cancel while recording



Synchronized Recording



INFO

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

- This function is available only for CD/VCD/SVCD/DVD Audio/DVD Video and Audio files.
- Not available with Random Play.

1 Load a disc or connect a USB mass storage class device and insert a recordable cassette.

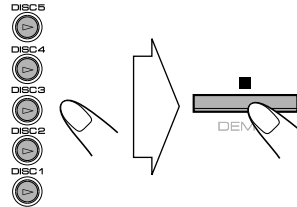
2 Check the tape running direction and Reverse Mode settings on the display.

- See step 2 of "Recording onto a Tape" on page 29.

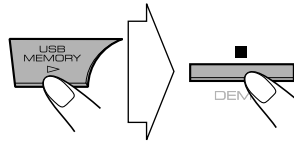
3 Select the source you want to record.

- When recording from the disc:

Select the disc number you want to start recording from.



- When recording from the USB mass storage class device:



For recording desired tracks/files from discs:

You can program tracks/files to record in your preferred order.

Select Program Play (and make a program; see page 20) before starting playback.

4 Start recording.



Playback and recording start from the first track/file.

- The System automatically creates 4-second blank between the tunes recorded on the tapes.
- When either playback or recording ends, both playback and recording stop at the same time.

To record only your favorite track/file —One Track Recording

You can specify track/file to be recorded on the tape while listening to a disc/USB mass storage class device.

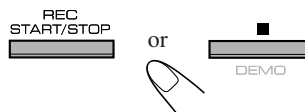
- This function is available only for CD/VCD/SVCD/DVD Audio and Audio files (without PBC for SVCD/VCD).
- Not available with Program Play and Random Play.

While the track/file you want to record is playing...



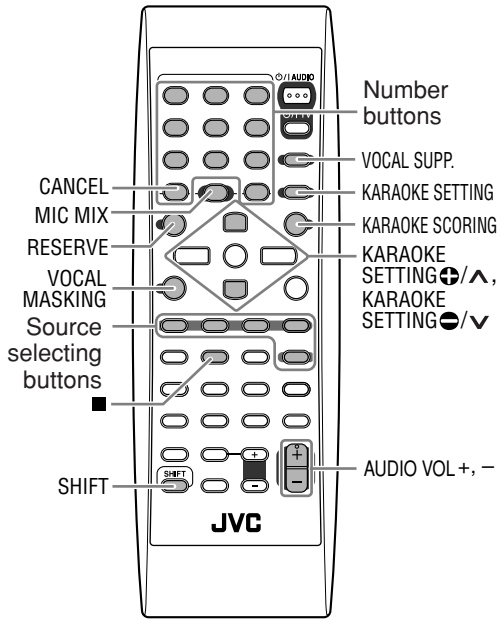
Playback returns to the beginning of that track/file and the track/file is recorded on the tape. After recording, both playback and recording stop.

To cancel while recording

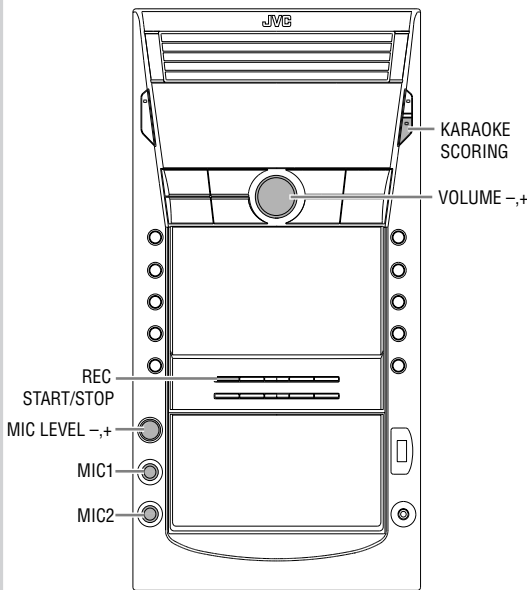


Enjoying Karaoke

Remote control



Main unit



DO NOT keep the microphones connected while they are not in use.

- When you activate the Mic Mixing or Vocal Masking, multi-channel surround modes you selected will be changed to "ALL CH ST" temporarily ("AUTO" will be changed to "ALL CH ST" and "STEREO" remain as "STEREO").

IMPORTANT

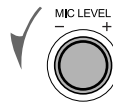
- Always set MIC LEVEL to "0" when connecting or disconnecting the microphone.
- MIC LEVEL adjustment is valid for both microphones connected to the MIC1 and MIC2 jacks.
- MIC LEVEL and MICVOL mentioned in this Instruction Book carry the same meaning.

Singing Along (Karaoke)

You can enjoy singing along (Karaoke) by using one or two microphones.

- By pressing REC START/STOP, you can record your singing-along.

1 Turn MIC LEVEL to "0".



2 Connect the microphone(s) (not supplied) to the MIC1 and/or MIC2 jack.

Mic Mixing will be automatically activated.



3 Start playing a source—"TUNER FM," "TUNER AM," "DVD/CD," "USB," "TAPE-A," "TAPE-B" or "AUX."

- For Karaoke discs: Select a desired audio channel. See "Selecting the Audio Track" on page 17.

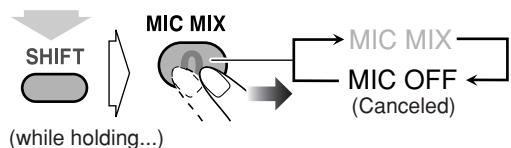
4 Sing into the microphone.

5 Adjust the MIC LEVEL and VOLUME.



To use microphone only, select "DVD/CD" or "USB" in step 3, but do not start playback.

To cancel the Mic Mixing



Adjusting the Sound Track for Karaoke

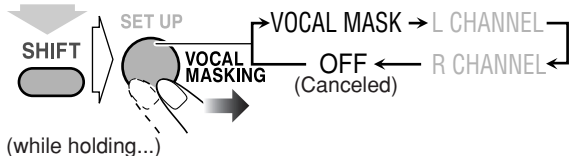


You can adjust the sound track for Karaoke.

For stereo (2-channel) source: By selecting VOCAL MASK, you can reduce the lead vocal—Vocal Masking.

For Karaoke disc: By selecting L CHANNEL or R CHANNEL, you can select the audio channel to play.

While Mic Mixing is activated...



VOCAL MASK	Reduces the vocal from stereo (2-channel) source.
L CHANNEL	Reproduces only the left audio channel.
R CHANNEL	Reproduces only the right audio channel.

To return to normal playback, select “OFF.”

To return to normal playback temporarily

This function allows you to recover the lead vocal temporarily for your reference.

While “VOCAL MASK,” “L CHANNEL” or “R CHANNEL” is activated...

TV/VIDEO
VOCAL SUPP.



The vocal or stereo effect will be restored temporarily.

To return to VOCAL MASK, L CHANNEL or R CHANNEL, press the same button again.

Scoring Your Karaoke Skill

INFO

This System can score your Karaoke skill by comparing your singing along with the vocal on the playback source.

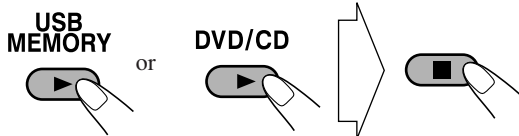
- This function is available only for disc/USB mass storage class device playback.
- This function is not available for DVD Audio.
- It is recommended to select the soundtrack as follows (see also page 17):

For Karaoke DVD Video: Select a sound track with vocal.

For Karaoke SVCD/VCD: Select “ST,” “ST1” or “ST2.”

- After selecting a sound track, select “VOCAL MASK,” “L CHANNEL” or “R CHANNEL” using the VOCAL MASKING button (see above).

1 Select “DVD/CD” or “USB” as the source.



2 Connect the microphone(s) (not supplied) to the MIC1 and/or MIC2 jack.

Mic Mixing will be activated.

- If a microphone is already connected but Mic Mixing is not activated, use the MIC MIX button to activate Mic Mixing (see page 31).

3 Activate Karaoke Scoring.

“KSCORE ON” appears on the display.



- During Karaoke Scoring, scoring will start when playback is started.
- To cancel Karaoke Scoring before playback, press the same button again. “KSCORE OFF” appears on the display.

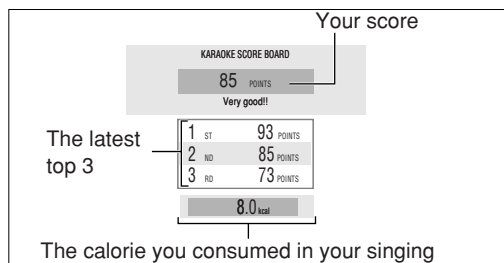
4 Start playback and sing into the microphone.

Karaoke Scoring starts.

- Adjust echo level and key if you want. (See “To apply an echo to your voice” and “To adjust the key” on page 33.)
- When you press ◀◀ or ▶▶, Karaoke Scoring is canceled and restarts from the selected track/file.

After the song ends, playback stops and the score board appears on the TV screen with fanfare.

Ex.:



- When you press ■, Karaoke Scoring is canceled. When playback starts again, Karaoke Scoring restarts.
- If you do not sing for about 2 minutes after Karaoke Scoring starts, Karaoke Scoring is canceled.
- If you sing a song too quietly for the System to detect your voice for about 2 minutes after Karaoke Scoring starts, Karaoke scoring may be canceled.
- To obtain a correct scoring result, it is recommended to sing the song completely. If the singing time is less than 3 minutes, the scoring result may be “0” or incorrect.

To stop the playback in the middle of the song, press ■. Karaoke Scoring is not canceled and your singing along is scored until that time.

To activate Karaoke Scoring in the middle of the song, press KARAOKE SCORING. “SCORING START” appears on the display, then scoring starts from that point.

To deactivate Karaoke Scoring in the middle of the song during playback, press KARAOKE SCORING. “SCORING CANCEL” appears on the display.

- Once you deactivate Karaoke Scoring in the same song during playback, pressing KARAOKE SCORING switches “KSCORE ON” and “KSCORE OFF” alternately.
- When you reactivate Karaoke Scoring in the same song during playback and “KSCORE ON” is selected, scoring starts from the next track.

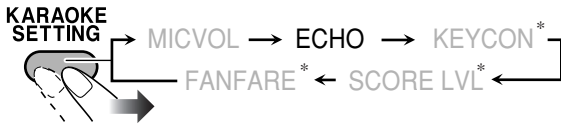
Changing the Karaoke Setting

You can change five settings for Karaoke.

- To exit from Karaoke setting, wait for several seconds after the setting is done.

To apply an echo to your voice

1



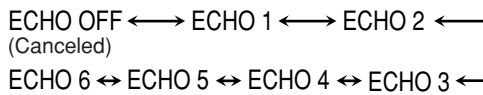
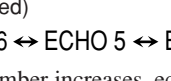
* Appears only when “DVD/CD” or “USB” is selected as the source with Mic Mixing activated.

2 Adjust the echo level.

KARAOKE SETTING ⊕



KARAOKE SETTING ⊖



- As the number increases, echo level also increases.

To adjust the key

- This function is available for disc/USB mass storage class device playback.
- This function is available only for CD/VCD/SVCD/DVD Video and Audio files.
- Key adjustment will be canceled when you deactivate Mic Mixing, or select another disc, track or file.

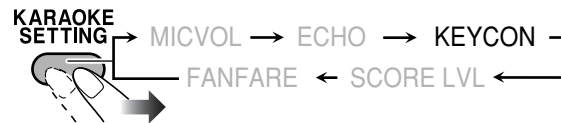
1 Select “DVD/CD” or “USB” as the source.

2 Connect the microphone(s) (not supplied) to the MIC1 and/or MIC2 jack.

Mic Mixing will be automatically activated.

- If a microphone is already connected but Mic Mixing is not activated, use the MIC MIX button to activate Mic Mixing (see page 31).

3 Start playback, then...

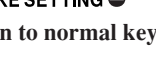


4 Adjust the key.

KARAOKE SETTING ⊕



To raise the key (up to +6).



To lower the key (up to -6).

KARAOKE SETTING ⊖

To return to normal key, select “0.”

To change the scoring level

You can change the scoring level of Karaoke Scoring.

- This function is available only for disc/USB mass storage class device playback.

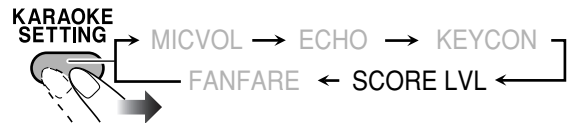
1 Select “DVD/CD” or “USB” as the source.

2 Connect the microphone(s) (not supplied) to the MIC1 and/or MIC2 jack.

Mic Mixing will be automatically activated.

- If a microphone is already connected but Mic Mixing is not activated, use the MIC MIX button to activate Mic Mixing (see page 31).

3

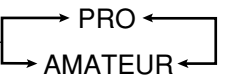
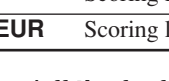


4 Select the scoring level setting.

KARAOKE SETTING ⊕



KARAOKE SETTING ⊖



PRO Scoring level is strict.

AMATEUR Scoring level is lenient.

To turn on/off the fanfare

You can turn the fanfare on or off for Karaoke Scoring.

- This function is available only for disc/USB mass storage class device playback.

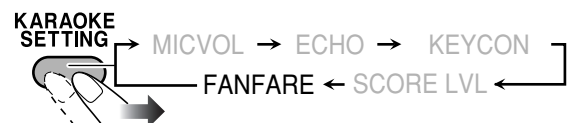
1 Select “DVD/CD” or “USB” as the source.

2 Connect the microphone(s) (not supplied) to the MIC1 and/or MIC2 jack.

Mic Mixing will be automatically activated.

- If a microphone is already connected but Mic Mixing is not activated, use the MIC MIX button to activate Mic Mixing (see page 31).

3

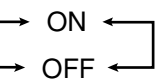


4 Select the fanfare setting.

KARAOKE SETTING ⊕



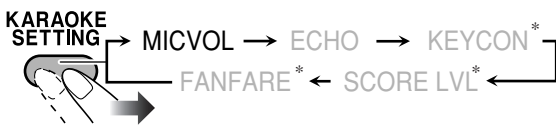
KARAOKE SETTING ⊖



(Canceled)

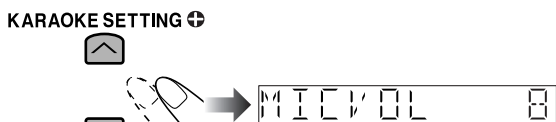
To change the mic volume

1



* Appears only when “DVD/CD” or “USB” is selected as the source with Mic Mixing activated.

2 Select the volume level.



• The mic volume level can be adjusted in 16 steps (MICVOL 0 – 15).

Reserving Karaoke Songs

—Karaoke Program Play

You can determine the playback order of the titles, chapters, tracks or files on the disc player. You can program up to 12 steps.

• This function is not available for files in a USB mass storage class device.

1 Select “DVD/CD” as the source.

2 Turn the MIC LEVEL to “0”.



3 Connect the microphone(s) (not supplied) to the MIC1 or MIC2 jack.

Mic Mixing will be automatically activated.

• If a microphone is already connected but Mic Mixing is not activated, use the MIC MIX button to activate Mic Mixing (see page 31).

4 Activate Karaoke Program Play.



(while holding...)

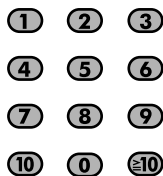
On the TV screen

• The PROGRAM indicator flashes during this mode.

5 Select songs you want for Karaoke Program Play.

Press the number buttons to select a song in the following order.

- ① Select a disc.
- ② Select a title/group.
- ③ Select a chapter/track/file.



• To select a number, see “How to select a number” on page 8.

• To cancel the procedure, press RESERVE while holding SHIFT. The PROGRAM indicator disappears.

6 Start playback.

DVD/CD



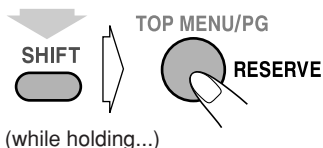
Karaoke Reserve screen disappears and playback starts in the order you have programmed.

• For the Karaoke Program Play with Karaoke

Scoring: Each time the song ends, playback stops and the score board appears. Press DVD/CD ► to start playback of the next track.

7 Sing into the microphone.

To check the programmed contents



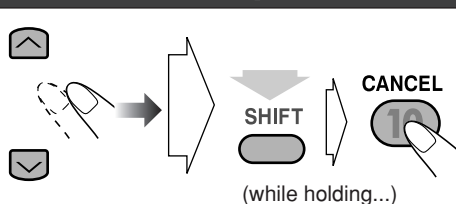
Karaoke Reserve screen appears.

• You cannot display Karaoke Reserve screen while Karaoke Scoring is in use.

To modify the program

While Karaoke Reserve screen is shown on the TV...

To erase the unwanted step:



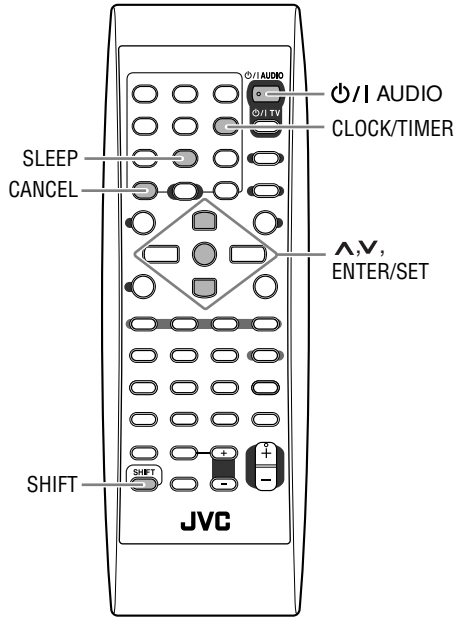
To erase the entire program, repeat the procedure.

To add steps in the program:

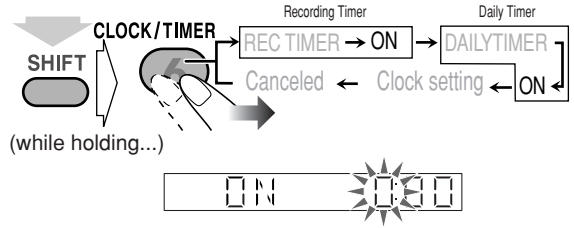
Repeat step 5.

Timer Operations

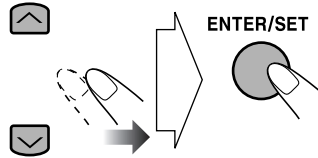
Remote control



1 Select one of the timer setting modes—ON for Recording Timer or Daily Timer.



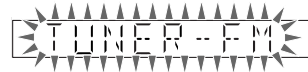
2 Make the timer setting as you want.



Repeat the procedure for the following settings until finished.

- ① Set the hour then minute for on-time.
- ② Set the hour then minute for off-time.
- ③ For Recording Timer: Select the playback source—"TUNER-FM," "TUNER-AM" or "AUX."

For Daily Timer: Select the playback source—"TUNER-FM," "TUNER-AM," "DISC," "USB," "TAPE-A," "TAPE-B" or "AUX."



EX.: When "TUNER-FM" is selected.

- When you select "AUX" as the source, you also need to set the timer of the external component.
- ④ Select an item you want to play or record as follows.
 - "TUNER-FM" and "TUNER-AM": Preset station.
 - "DISC": Disc, group/title and track/file/chapter.
 - "USB": Group and file.
- ⑤ Select the volume level.
 - You can select the volume level ("VOLUME 0" – "VOLUME 30" and "VOLUME --"). If you select "VOLUME --," the volume is set to the last level when the System has been turned off.

After making the timer setting, "SET OK" appears and your setting items appear on the display one after another.

Setting the Timer



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

- You cannot activate Daily Timer and Recording Timer at the same time. (Activating one timer deactivates the other timer.)
- To correct a misentry during the process, press CANCEL while holding SHIFT. You can return to the previous step.

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

⏻/I AUDIO



How Recording Timer works

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

- Recording Timer starts working only when the System is turned off (on standby).

When the on-time comes

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

When the off-time comes

- The System stops recording, and turns off (on standby).
- The timer setting remains in memory until you change it.

How Daily Timer works

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

- Daily Timer starts working only when the System is turned off (on standby).

When the on-time comes

The System turns on, tunes in to the specified station or starts playing the specified source, and sets the volume level gradually to the preset level after about 30 seconds.

When the off-time comes

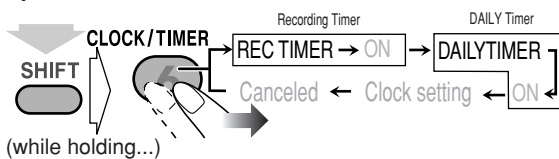
- The System stops playback, and turns off (standby).
- The timer setting remains in memory until you change it.

To turn off the Timer after the setting is done

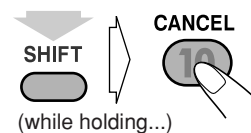
You can turn off the timer after it has been set.

- Since Daily Timer works at the same time everyday, you may need to cancel it on some particular days.

1 Select the timer (REC TIMER or DAILYTIMER) you want to cancel.



2 Turn off the selected timer.



- The timer indicator (⏻) goes off.

To turn on the timer again, repeat step 1 and press ENTER/SET in step 2.

Turning Off the Power Automatically



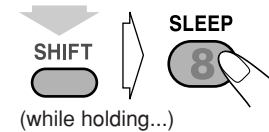
With Sleep Timer, you can fall asleep while listening to music.

1 Specify the time (in minutes).



2 Wait until the set time disappears.

To check the time remaining until the shut-off time

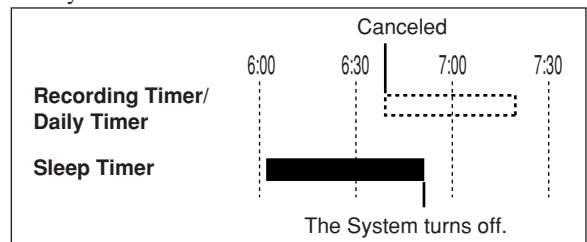


- If you press the button repeatedly, you can change the shut-off time.

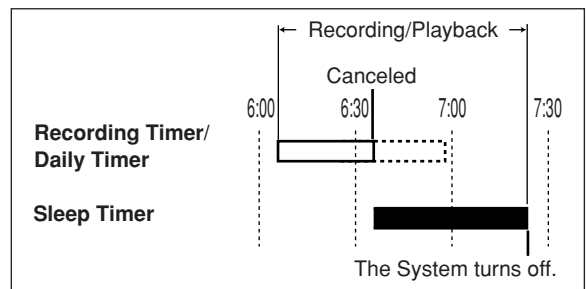
Timer Priority

If Timer settings overlap, the timers work as described below.

- Sleep Timer has priority over the Recording Timer and Daily Timer.



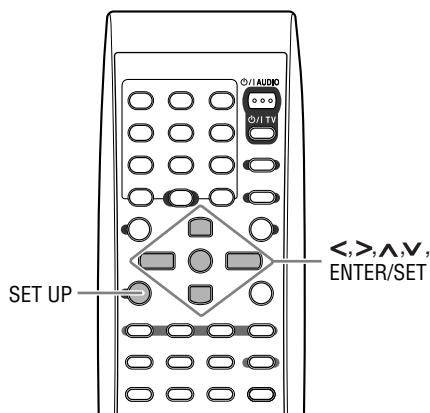
- In this case, Recording Timer/Daily Timer does not work.



- In this case, Recording Timer/Daily Timer is canceled. (If Sleep Timer shuts off the System earlier than the off time you have set for Recording Timer, recording stops when Sleep Timer shuts off the System.)

Setup Menu Operations

Remote Control

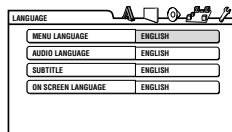


Basic Procedure INFO

You can change the setting of the System.

- The setup menu can be used only when “DVD/CD” or “USB” is selected as the source.

1 Press SET UP while playback is stopped.



2 Press > (or <) to select the menu.

3 Press v (or ^) to select the item.

4 Press ENTER/SET.

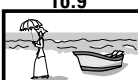
5 Press v (or ^) to select the options, then press ENTER/SET.

To erase a preference display, press SET UP.

LANGUAGE menu

Item	Contents
MENU LANGUAGE	You can select the initial menu language of DVD Video (see page 46).
AUDIO LANGUAGE	You can select the initial audio language of DVD Video (see page 46).
SUBTITLE	You can select the initial subtitle language of DVD Video (see page 46).
ON SCREEN LANGUAGE	You can select “ENGLISH,” “CHINESE,” or “SPANISH” as the on-screen language.

PICTURE menu

Item	Contents
MONITOR TYPE 	You can select the monitor type to match your TV when you play back picture recorded for wide-screen televisions. 16:9 NORMAL/16:9 MULTI NORMAL (Wide television screen): Select this when the aspect ratio of your wide TV is fixed to 16:9. 16:9 AUTO/16:9 MULTI AUTO (Wide television screen): Select this when your TV is an ordinary wide TV. 4:3 LB/4:3 MULTI LB (Letter Box conversion): For a conventional (4:3) TV. Displays a wide-screen picture to fit the width of the TV screen keeping the aspect ratio. 4:3 PS/4:3 MULTI PS (Pan Scan conversion): For a conventional (4:3) TV. The picture is zoomed in to fill the screen vertically and the left and right sides of the picture are cut off.
PICTURE SOURCE	You can obtain optimal picture quality by selecting the type of the video source. AUTO: Normally, select this option. The System recognizes the picture type (film or video source) of the current picture according to its information. FILM: For a film source picture. VIDEO: For a video source picture.
SCREEN SAVER	You can set the screen saver function to ON or OFF . ON: The on-screen display becomes dark when no operation is done for about 5 minutes. OFF: To cancel the screen saver.
FILE TYPE	You can select a file type to play. AUDIO: To play Audio files. (MP3/WMA/WAV files.) STILL PICTURE: To play Still Picture files. (JPEG file.) VIDEO: To play Video files. (MPEG-1/MPEG-2/ASF/DivX files.)

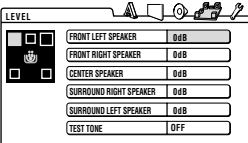
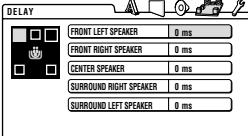


AUDIO menu

Item	Contents
D. RANGE COMPRESSION	You can enjoy a powerful sound at a low volume level while playing Dolby Digital software. AUTO: Select to apply the compression only to multi-channel encoded audio (except for 1-channel and 2-channel sources.) ON: Select this to always apply the compression.



SPK. SETTING menu

Item	Contents
LEVEL 	Select this item, then press ENTER/SET to show the LEVEL submenu for adjusting the speaker output level. FRONT LEFT/RIGHT SPEAKER, CENTER SPEAKER, SURROUND RIGHT/LEFT SPEAKER: Select the speaker, then adjust the output level (-6 dB to +6 dB in 1 dB steps). TEST TONE: Turns on/off the test tone. <ul style="list-style-type: none"> • Select "ALL CH ST," "MUSIC," or "MOVIE" (see page 15) to adjust the output level for all speakers with the test tone.
DELAY 	Select this item, then press ENTER/SET to show the DELAY submenu for adjusting the speaker delay time. FRONT LEFT/RIGHT SPEAKER, CENTER SPEAKER, SURROUND RIGHT/LEFT SPEAKER: Select the speaker, then adjust the delay time (0 ms to 15 ms in 1 ms steps). <ul style="list-style-type: none"> • Set one speaker to "0 ms," then set other speakers so that the sound from all speakers can reach you at the same time.

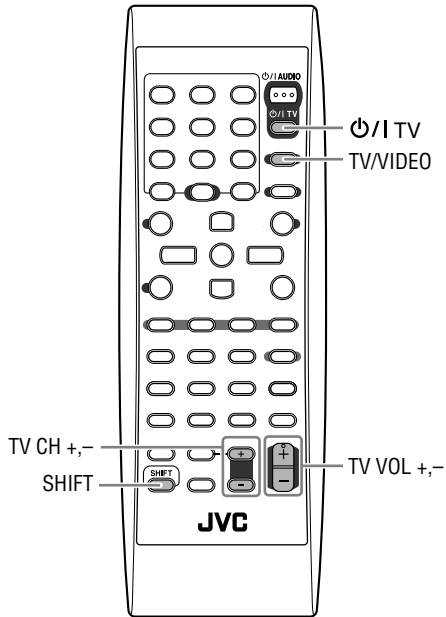


OTHERS menu

Item	Contents
RESUME	You can select Resume. ON: The System resumes playback from the position where playback has been stopped (not applicable for CD). OFF: Resume is deactivated.
ON SCREEN GUIDE	Activate or deactivate the on-screen guide. ON: Activate the on-screen guide. OFF: Deactivate the on-screen guide.
DivX REGISTRATION	The System has its own Registration Code. If necessary, you can confirm it. Once you have played back a DivX file in which the Registration Code is recorded, the System's Registration Code is overwritten for copyright protection.

Operating the TV

Remote control



You can operate JVC's TV using the remote control supplied for this System.

To turn on or off the TV:	To select the input mode (either TV or VIDEO):
<p>P/I TV</p>	<p>SHIFT → TV/VIDEO VOCAL SUPP.</p> <p>(while holding...)</p>
To adjust TV volume:	
<p>SHIFT → TV VOL</p> <p>(while holding...)</p>	
To select the TV channel:	
<p>SHIFT → TV CH</p> <p>(while holding...)</p>	

Additional Information

Learning More about This System ● ● ●

Connections (see pages 3 to 6)

Changing the Color System and Scanning Mode:


- If you play back an NTSC disc/file with the color system set to “PAL (PROG),” the disc/file will be reproduced using “PAL 60” format; however, if the TV does not support this format, the screen may not display properly.
- If you play back a PAL disc/file with the color system set to “NTSC (PROG),” you can watch the playback pictures, but the following symptoms may occur:
 - The items on the menu will be blurred, and be shown slightly shifted when highlighted.
 - The aspect ratio of the picture may differ from the original aspect ratio.
 - The picture movement is not smooth.
- You cannot change the scanning mode to progressive in the following cases:
 - When your TV does not support the progressive video input.
 - When you have not connected your TV to the unit using a component video cord.
- When you play back an NTSC disc/file in progressive scanning mode (either NTSC PROG or PAL PROG), the System outputs the NTSC signal regardless of the color system settings.

Daily Operations—Playback (see pages 8 to 12)

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 may be erased in a few days. If this happens, preset the stations again.

Playing Back a Disc/USB Mass Storage Class Device:

- When you change the source to “DVD/CD” or “USB,” it may take a while to activate the source.
- While the System is reading a disc, the source may not change to “USB MEMORY” correctly. In this case, press **■**, then reactivate “USB MEMORY” as the source.
- On some discs/files, the actual operations may be different from what is explained in this manual, due to the programming and disc structure; such differences are not a malfunction of this System.
- For playback of files in the USB mass storage class device...
 - When connecting a USB mass storage class device, refer also to its manual.
 - Connect one USB mass storage class device to the System at a time. Do not use a USB hub.
 - You cannot charge any other USB mass storage class device through the  (USB memory) terminal of this System.
 - While playing back a file in a USB mass storage class device, do not disconnect the device. It may cause a malfunction of both the System and the device.
- JVC bears no responsibility for any loss of data in the USB mass storage class device while using this System.
- When connecting with a USB cable, use the cable whose length is less than 1 m.
- This System is compatible with USB 2.0 Full Speed.
- You can play back the following types of files in a USB mass storage class device (maximum data transfer rate: 2 Mbps):
 - Audio: MP3, WMA, WAV
 - Still picture: JPEG
 - Video: MPEG-1, MPEG-2, ASF, DivX (maximum frame rate of 30 fps for progressive)
 - This System may not play back some files even though their formats are listed above.
- You cannot play back a file larger than 2 Gigabyte.
- When playing a file which has a high transfer rate, frames or sounds may be dropped during playback.
- This System cannot recognize a USB mass storage class device whose rating is other than 5 V and does not exceed 500 mA.
- This System may not play back some USB mass storage class devices and does not support DRM (Digital Rights Management).
- It will take some time to start up a Digital Audio Player (DAP) larger than 1 Gigabyte.
- You cannot send any data to your USB mass storage class device from this System.

• For MP3/WMA/WAV playback...

- MP3/WMA/WAV discs require a longer readout time than regular CDs. (It depends on the complexity of the group/file configuration.)
- Some MP3/WMA/WAV files cannot be played back and will be skipped. This results from their recording processes and conditions.
- When making MP3/WMA/WAV discs, use ISO 9660 Level 1 or Level 2 for the disc format.
- This System can play back MP3/WMA/WAV files with the extension code <.mp3>, <.wma> or <.wav> (regardless of the letter case—upper/lower).
- It is recommended that you make each MP3/WMA/WAV files at the following conditions:
 - MP3/WMA: At a sampling rate of 44.1 kHz and bit rate of 128 kbps.
 - WAV: 44.1 kHz/16 bit Linear PCM.
 - This System cannot play back files made at bit rate of less than 64 kbps.

• For DVD-VR playback...

- **Original Program:** The System can play back the original picture in the recorded order.
- **Play List:** The System can play back the play list edited by the recording equipment.
- For details about DVD-VR format and play list, refer to the manual of the recording equipment.

- For JPEG playback...
 - This System can play back JPEG files with the extension code <.jpg> or <.jpeg> (regardless of the letter case—upper/lower).
 - 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.
- For MPEG-1/MPEG-2 playback...
 - This System can play back MPEG-1/MPEG-2 files with the extension code <.mpg> or <.mpeg> (regardless of the letter case—upper/lower).
 - The stream format should conform to MPEG system/program stream.
 - 720 x 576 pixels (25 fps)/720 x 480 pixels (30 fps) is recommended for the highest resolution.
 - This System also supports the resolutions of 352 x 576/480 x 576/352 x 288 pixels (25 fps) and 352 x 480/480 x 480/352 x 240 pixels (30 fps).
 - The file format should be MP@ML (Main Profile at Main Level)/SP@ML (Simple profile at Main Level)/MP@LL (Main Profile at Low Level).
 - Audio streams should conform to MPEG1 Audio Layer-2 or MPEG2 Audio Layer-2.
- For ASF playback...
 - This System can play back ASF files with the extension code <.asf> (regardless of the letter case—upper/lower).
 - This System supports ASF files whose resolution is 352 x 288 pixels or less.
 - Some recorded files may not be able to played back depending on file characteristics, kind of digital still/video cameras, or recording conditions.
- For DivX playback...
 - The System supports DivX 6.x, 5.x, 4.x and 3.11.
 - When making a disc, use the UDF-Bridge format. “Multi-border” is not supported.
 - The System supports DivX files whose resolution is 720 x 480 pixels or less (30 fps), and 720 x 576 pixels or less (25 fps).
 - Audio stream should conform to Dolby Digital, MPEG1 Audio Layer- 2 or MPEG Audio Layer-3 (MP3).
 - This System can play back DivX files with the extension code <.divx> <.div> <.avi> (regardless of the letter case—upper/lower).
 - The System does not support GMC (Global Motion Compression).
 - The file encoded in the interlaced scanning mode may not be played back correctly.

Daily Operations—Sound & Other Adjustments (see pages 13 to 16)

Adjusting the Speaker Output Level:

- The channel level cannot change during Mic Mixing, Vocal Masking or Karaoke Scoring.

Reinforcing the Bass Sound:

- You cannot adjust the Active Bass level when the headphones are connected.

Applying an Optimal Bass Sound Effect—VARIO BASS:

- If you plug in a microphone and Mic Mixing is activated, the System will automatically switches the mode to LITE.n.EASY even if the mode is set to OFF.

Creating Your Own Sound Modes—User Mode:

- When you unplug the AC power cord or if a power failure occurs, the User Mode settings may be erased in a few days. If this happens, set the User Modes again.

Selecting the Surround Modes:

- Dolby Pro Logic II Modes: Dolby Pro Logic II Mode is a multi-channel playback format to convert 2-channel sources into 5.1-channels. Dolby Pro Logic II reproduces spacious sound from original sound without adding any new sounds or tonal colorations.
- While you use the headphones, the Surround Mode is canceled temporarily.
- Some DVD Audio discs prohibit downmix. While playing back such a disc...
 - You cannot change the Surround Mode.
 - The System plays back the left front and right front signals when you have selected “STEREO” for the Surround Mode or when you use the headphones.
- Dolby PL II MUSIC/MOVIE take no effect to MPEG-1/ MPEG-2/ASF/DivX files.

Setting the Clock:

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

Unique Video Disc/File Operations (see pages 17 to 19)

Selecting the Audio Track:

- On some disc/file, you cannot change audio languages while playing back.

Playing Back Bonus Group:

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

Special Picture Playback:

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

Advanced Playback Operations (see pages 20 to 22)

Programming the Playing Order—Program Play:

- While programming steps...
Your entry will be ignored if you have tried to program an item number that does not exist on the disc (for example, selecting track 14 on a disc that only has 12 tracks).
- For SVCD/VCD/CD loaded on the other tray than the current one, the System may prompt for the group number entry as well; however, these entries will be ignored during playback.
- The programmed contents will remain until you erase it.
- While the PROGRAM indicator is on, you cannot change the disc to play. (DISC 1 – 5 on the remote control and DISC 1 – 5 ▷ on the main unit do not work.)

On-Screen Operations (see pages 23 to 28)

Operations Using the On-screen Bar:

- A-B Repeat is possible only within the same title or within the same track.

Recording Operations (see pages 29 to 30)

General:

- You cannot change the source during recording.
- There is leader tape which cannot be recorded onto at the start and the end of cassette tapes. Thus, before recording, wind the leader tape first to ensure that the recording will be made without any music part lost.
- If no cassette is inserted or a protected tape has been inserted, “NO REC” appears on the display.
- The recording level is automatically set correctly. Thus, you can make sound adjustments other than Surround Mode without affecting the recording level.

Recording onto a Tape:

- While recording disc/USB mass storage class device, plugging in and out headphones may cause sound distortion and affect the recording.
- When using Reverse Mode for recording, start recording in the forward (▶) direction first; otherwise, recording will stop when only one side (reverse) of the tape is recorded.

Synchronized Recording:

- You cannot open the disc tray while recording onto a tape using USB/DISC REC START button.
- Recording starts from the first track even if you have selected a track by using ◀◀/▶▶. To specify track(s) to record, program them (not applicable for USB mass storage class device) or use One Track Recording.
- While recording, you cannot use disc/USB mass storage class device operation buttons (except for ■).
- You cannot use Repeat Play during synchronized recording (Repeat Play will be canceled).

- USB/DISC REC START button does not work:
 - While playback is paused.
 - When Random Play mode is selected.
 - When playing back in Program Play mode.
- When using Reverse Mode and the tape reaches its end in the forward direction (▶) during recording, the last song will be re-recorded at the beginning of the reverse side (◀).
- When using Reverse Mode and the tape reaches its end in the reverse side (◀) during recording, recording stops even though the disc/USB mass storage class device is not entirely recorded.

Enjoying Karaoke (see pages 31 to 34)

General:

- When Mic Mixing or Vocal Masking is activated:
 - Multi-channel source will be down-mixed.
 - Dolby Pro Logic II will be canceled temporarily.
- When Mic Mixing is activated and ALL CH ST is selected as the Surround mode, the output level of surround speaker decreases.
- While recording onto a tape, Key adjustment, Echo and Vocal Masking will be recorded. However, while recording onto a tape using USB/DISC REC START, Key adjustment will not be recorded.
- While the System is turned on, connecting a microphone automatically activates Mic Mixing and all the Karaoke related functions.
- If you connect a microphone with the System turned off, press MIC MIX while holding SHIFT to activate Mic Mixing after turning the System on.

Adjusting the Sound Track for Karaoke:

- On some music, Vocal Masking does not provide the correct effect.

Scoring Your Karaoke Skill:

- Karaoke Scoring does not work for DVD Audio, but you can activate or deactivate the function while playing back DVD Audio.
- While Karaoke Scoring is in use, you cannot deactivate Mic Mixing or use MIC MIX, RESERVE and number buttons.
- Activating Karaoke Scoring cancels Repeat Play.
- You cannot use Karaoke Scoring during Program Play, Random Play, or recording. However, you can turn Karaoke Scoring on and off by using KARAOKE SCORING button during these play modes.
- The ranking (top 3) is cleared when you turn off the System.

Reserving Karaoke Songs—Karaoke Program Play:

- You can use RESERVE button when a microphone is plugged in. However, you can cancel Karaoke Program Play using the button even if a microphone is not plugged in. In case you reactivate Karaoke Program Play, plug in a microphone.
- If you have selected a disc tray on which a disc containing Video files or JPEG file or DVD-VR is loaded, that disc number is skipped.
- If DVD-VR or a disc containing Video files and JPEG file is loaded on the current tray, you cannot activate Karaoke Program Play.
- When the track starts playback, that track number will be erased from the Karaoke Reserve screen (the programmed contents will remain until you erase it).
- While the PROGRAM indicator is flashing, you cannot change the disc to play. (DISC 1 – 5 on the remote control and DISC 1 – 5 ▷ on the main unit do not work.)
- For some VCD, the Karaoke Scoring result may not appear at the end of the track if PBC is activated. In this case, press ■ to view your scoring result.

Timer Operations (see pages 35 to 36)

Setting the Timer:

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

Setup Menu Operations (see pages 37 to 38)

General:

- If the upper and lower parts of the menu are cut off, adjust the picture size control of the TV.

LANGUAGE menu:

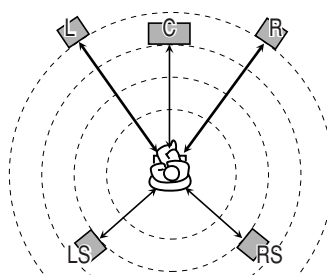
- When the language you have selected for MENU LANGUAGE, AUDIO LANGUAGE, or SUB TITLE is not recorded on a disc, the original language is used as the initial language.

PICTURE menu—MONITOR TYPE:

- Even if “4:3 PS/4:3 MULTI PS” is selected, the screen size may become 4:3 letter box with some disc. This depends on how they are recorded.
- When you select “16:9 NORMAL/16:9 MULTI NORMAL” or “16:9 AUTO/16:9 MULTI AUTO” for a picture whose aspect ratio is 4:3, the picture slightly changes due to the process for converting the picture width.

SPK. SETTING menu—DELAY:

- See the following diagram as an example for setting the delay time:



L, R
Front speakers:
0 ms
C
Center speaker:
1 ms
LS, RS
Surround speakers:
2 ms

OTHERS menu—ON SCREEN GUIDE:

- The setup menu and on-screen bar will be displayed (and recorded) even though this function is set to “OFF.” Subtitles and the information for zoom-in always appear on the display regardless of this setting.

Maintenance

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

Handling discs

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

To clean the disc:

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

Handling cassette tapes

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

To keep the best recording and playback sound quality:

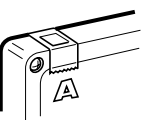
- Use a cotton swab moistened with alcohol to clean the heads, capstans and pinch rollers.
- Use a head demagnetizer (available at electronics and audio shops) to demagnetize the heads (when the System is turned off).



To protect your recording

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

To protect your recording, remove these tabs.



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

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 forcefully.
 - DO NOT wipe it with thinner or benzine.
 - DO NOT apply any volatile substance such as insecticides to it.
 - DO NOT allow any rubber or plastic to remain in contact for a long time.

Troubleshooting

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

General:

Adjustments or settings are suddenly canceled before you finish.

⇒ There is a time limit. Repeat procedure again.

Operations are disabled.

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

Unable to operate the System from the remote control.

⇒ The path between the remote control and the remote sensor on the System is blocked.

⇒ 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 video input.

⇒ Incorrect color system is selected (see page 6).

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

⇒ Select “4:3 LB /4:3 MULTI LB” for “MONITOR TYPE” (see page 37).

Radio Operations:

Hard to hear 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/file Operations:

The disc does not play.

- ⇒ You have inserted a DVD Video whose Region Code is not correct. (“REGION ERR” appears on the display.)
- ⇒ The disc is placed upside down. Place the disc with the label side up.

ID3 Tag on an MP3 disc cannot be shown.

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

Groups and files are not played back as you expect.

- ⇒ The playing order is determined when the files were recorded. It depends on the application.

AV files are not played back.

- ⇒ The disc or USB mass storage class device includes different types of files (Audio file, Video file and Still picture file.). In this case, you can play back the files selected only by the “FILE TYPE” setting (see page 37).
- ⇒ You have changed the “FILE TYPE” setting after the System read the disc or the USB mass storage class device. In this case, reload the disc or disconnect the USB mass storage class device and connect it again.

The disc sound is discontinuous.

- ⇒ The disc is scratched or dirty.

The playback sounds strange.

- ⇒ Cancel Vocal Masking (see page 32).
- ⇒ Cancel Key adjustment (see page 33).

No subtitle appears on the TV screen though you have selected the initial subtitle language.

- ⇒ Some discs are programmed to always display no subtitle initially. If this happens, press SUB TITLE after starting play (see page 18).

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

- ⇒ Some discs/files are programmed to always use the original language initially. If this happens, press AUDIO MPX after starting play (see page 17).

The disc tray does not open or close.

- ⇒ The AC power cord is not plugged in.
- ⇒ Child Lock is in use. “LOCKED” appears on the display window (see page 22).
- ⇒ Program Play is in use. Cancel Program Play (see page 21).

Tape Operations:

The cassette holder cannot be opened.

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

Recording Operations:

“CANNOT REC” appears on the display.

- ⇒ The System cannot perform recording.

Impossible to record.

- ⇒ Small tabs on the back of the cassette are removed. Cover the holes with adhesive tape.
- ⇒ Karaoke Scoring is in use. Cancel the Karaoke Scoring (see page 32).

Karaoke Operations:

Karaoke function cannot be activated.

- ⇒ Ensure at least 1 microphone is connected and Mic Mixing is activated. If a microphone is not connected, you cannot activate Mic Mixing and any other Karaoke related function.

Karaoke Scoring function cannot be activated.

- ⇒ You cannot use Karaoke Scoring while recording, or while the disc menu for DVD Video/SVCD/VCD is shown on the TV screen.

Scoring result seems wrong (or “- -” appears).

- ⇒ The time of the playback and singing along are too short for Karaoke Scoring. It is recommended to sing more than 3 minutes to obtain a correct scoring result.
- ⇒ No sound from the microphone or the input level (MIC LEVEL) is too low.
- ⇒ You have sung too quietly.

Timer Operations:

Daily Timer or Recording Timer does not work.

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

Language Code List

AA Afar	FA Persian	KM Cambodian	OC Occitan	SV Swedish
AB Abkhazian	FI Finnish	KN Kannada	OM (Afan) Oromo	SW Swahili
AF Afrikaans	FJ Fiji	KO Korean (KOR)	OR Oriya	TA Tamil
AM Ameharic	FO Faroese	KS Kashmiri	PA Panjabi	TE Telugu
AR Arabic	FY Frisian	KU Kurdish	PS Pashto, Pushto	TG Tajik
AS Assamese	GA Irish	KY Kirghiz	PT Portuguese	TH Thai
AY Aymara	GD Scots Gaelic	LA Latin	QU Quechua	TI Tigrinya
AZ Azerbaijani	GL Galician	LN Lingala	RM Rhaeto-Romance	TK Turkmen
BA Bashkir	GN Guarani	LO Laothian	RN Kirundi	TL Tagalog
BE Byelorussian	GU Gujarati	LT Lithuanian	RO Rumanian	TN Setswana
BG Bulgarian	HA Hausa	LV Latvian, Lettish	RW Kinyarwanda	TO Tonga
BH Bihari	HI Hindi	MG Malagasy	SA Sanskrit	TR Turkish
BI Bislama	HR Croatian	MI Maori	SD Sindhi	TS Tsonga
BN Bengali, Bangla	HY Armenian	MK Macedonian	SG Sangho	TT Tatar
BO Tibetan	IA Interlingua	ML Malayalam	SH Serbo-Croatian	TW Twi
BR Breton	IE Interlingue	MN Mongolian	SI Singhalese	UK Ukrainian
CA Catalan	IK Inupiak	MO Moldavian	SL Slovenian	UR Urdu
CO Corsican	IN Indonesian	MR Marathi	SM Samoan	UZ Uzbek
CY Welsh	IS Icelandic	MS Malay (MAY)	SN Shona	VI Vietnamese
DA Danish	IW Hebrew	MT Maltese	SO Somali	VO Volapuk
DZ Bhutani	JI Yiddish	MY Burmese	SQ Albanian	WO Wolof
EL Greek	JW Javanese	NA Nauru	SR Serbian	XH Xhosa
EO Esperanto	KA Georgian	NE Nepali	SS Siswati	YO Yoruba
ET Estonian	KK Kazakh	NL Dutch	ST Sesotho	ZU Zulu
EU Basque	KL Greenlandic	NO Norwegian	SU Sundanese	

Specifications

Amplifier section

Output Power:

FRONT SPEAKERS: 125 W per channel, min. RMS, driven into 6 Ω at 1 kHz with no more than 10% total harmonic distortion.

SURROUND SPEAKERS: 50 W per channel, min. RMS, driven into 6 Ω at 1 kHz with no more than 10% total harmonic distortion.

CENTER SPEAKER: 50 W, min. RMS, driven into 6 Ω at 1 kHz with no more than 10% total harmonic distortion.

Audio output: SUBWOOFER OUT

Digital input: (USB memory)

Audio input sensitivity/Impedance

(Measured at 1 kHz, with tape recording signal 300 mV)

AUX: 400 mV/47 k Ω

MIC1/2: 3.0 mV/50 k Ω

VIDEO OUT:

Color system: NTSC/NTSC PROG/PAL/PAL PROG

VIDEO (composite): 1 V(p-p)/75 Ω

S-VIDEO: Y (luminance) 1 V(p-p)/75 Ω

C (chrominance, burst)

NTSC 0.286 V(p-p)/75 Ω

PAL 0.3 V(p-p)/75 Ω

COMPONENT (Interlace/Progressive):

(Y) 1 V(p-p)/75 Ω

(PB/PR) 0.7 V(p-p)/75 Ω

Speaker Terminals: 6 Ω – 16 Ω (front/surround/center)

Tuner section

FM tuning range: 87.50 MHz – 108.00 MHz

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

530 kHz – 1 710 kHz (at 10 kHz)

For Saudi Arabia: 531 kHz – 1 602 kHz (at 9 kHz)

530 kHz – 1 600 kHz (at 10 kHz)

Disc/File player section

Region codes:

Middle East: 2

South East Asia: 3

Central and south America, Australia: 4

Playable disc:

DVD Video/DVD Audio/CD/VCD/SVCD

CD-R/CD-RW (CD/VCD/SVCD/MP3/

WMA/WAV/JPEG/MPEG-1/MPEG-2/ASF/

DivX format)

DVD-R/-RW (DVD-VR/DVD-video/MP3/

WMA/WAV/JPEG/MPEG-1/MPEG-2/ASF/

DivX format)

+R/+RW (DVD-video/MP3/WMA/WAV/

JPEG/MPEG-1/MPEG-2/ASF/DivX format)

DVD-ROM (DVD-video/MP3/WMA/WAV/

JPEG/MPEG-1/MPEG-2/ASF/DivX format)

Playable file:

MP3/WMA/WAV/JPEG/MPEG-1/MPEG-2/

ASF/DivX format

Dynamic range:

80 dB

Horizontal resolution:

500 lines

Wow and flutter:

Immeasurable

USB storage section

USB specification: Compatible with USB 2.0 Full-Speed

Compatible device: Mass storage class

Compatible file system: FAT 16, FAT 32

Bus power supply: 5 V/500 mA

Cassette deck section

Frequency response

Normal (type I): 50 Hz – 14 000 Hz

Wow and flutter:

0.15% (WRMS)

General

Power requirement:

AC 110 V / AC 127 V / AC 220 V /
AC 230 V – AC 240 V \sim , (adjustable
with the voltage selector), 50 Hz / 60 Hz

For Australian model:

AC 240 V \sim , 50 Hz

Power consumption:

205 W (at operation) / 21 W (on standby)

Dimensions (W/H/D) (approx.): 185 mm x 370 mm x 372 mm

Mass (approx.):

9.5 kg

Supplied Accessories

See page 3.

Design and specifications are subject to change without notice.

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- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- “Official DivX[®] Ultra Certified product” “Plays all versions of DivX[®] video (including DivX[®] 6) with enhanced playback of DivX[®] media files and the DivX[®] Media Format” “DivX, DivX Ultra Certified, and associated logos are trademarks of DivX, Inc. and are used under licence.”
- This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.
- USE OF THIS PRODUCT IN ANY MANNER THAT COMPLIES WITH THE MPEG-4 VISUAL STANDARD IS PROHIBITED, EXCEPT FOR USE BY A CONSUMER ENGAGING IN PERSONAL AND NON-COMMERCIAL ACTIVITIES.
- “CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 OR 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE ‘STANDARD DEFINITION’ OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p AND 625p DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.”

Parts Index

Remote control

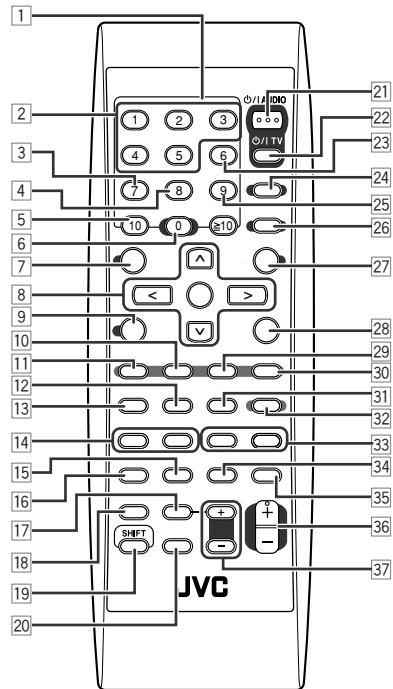
Button	Page	Button	Page
⏻/I AUDIO	21 8, 36	MIC MIX	16 31, 34
➡/I TV	22 39	MENU/PL	27 11, 27
■	12 10, 12, 21, 28, 32	ON SCREEN	28 24 – 26
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▶▶, ◀◀	14 9, 11, 21	PREV., NEXT	14 12
▬	13 10, 19, 21	REPEAT	16 22, 28
↶	31 18	REPEAT A-B	16 22
^, v, >, <, ENTER/SET	8 6, 9, 10, 11, 14 – 16, 18, 21, 24 – 28, 34, 35, 37	RESERVE	7 34
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Main unit

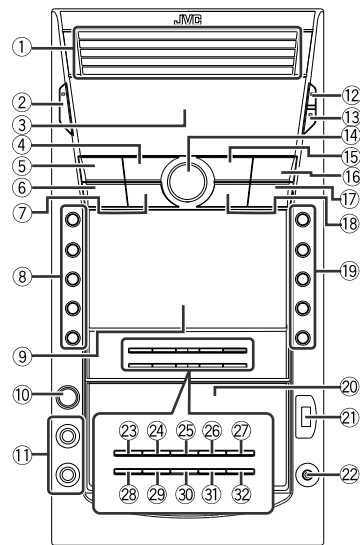
Button	Page	Button	Page
⏻/I	2 8, 9, 36	DISC1-5 ▲	8 10, 22
Display	3 7	DISC1-5 ▶	19 11, 30
■	30 10, 12, 22	DUBBING	25 30
▶▶, ◀◀	31 32 9, 11, 12, 19	DVD/CD ▶	5 8, 10
▶▶, ◀◀	28 29 9, 11, 21	FM/AM/AUX	15 8, 9
▬	6 10, 19, 21	KARAOKE SCORING	13 32
↶ (USB memory) terminal	21 6, 10	MIC1, MIC2	11 31
ACTIVE BASS EX. +,-	16 17 13	MIC LEVEL	10 31, 34
DEMO	30 6	PHONES	22 8
Disc trays	1 10	PRESET +, -	28 29 10
		PUSH OPEN ▲	9 20 12, 29
		REVERSE MODE	26 12, 29

Button	Page	Button	Page
REC START/STOP	23 30	SOUND MODE	27 14
SOUND MODE	27 14	USB/DISC REC START	24 30
TAPE-A ▶	7 8, 12, 30	USB MEMORY ▶	4 8, 10, 30
TAPE-B ◀▶	18 8, 12, 29, 30	VARIO BASS	12 14
TUNING +,-	31 32 9	VOLUME	14 8, 9, 31

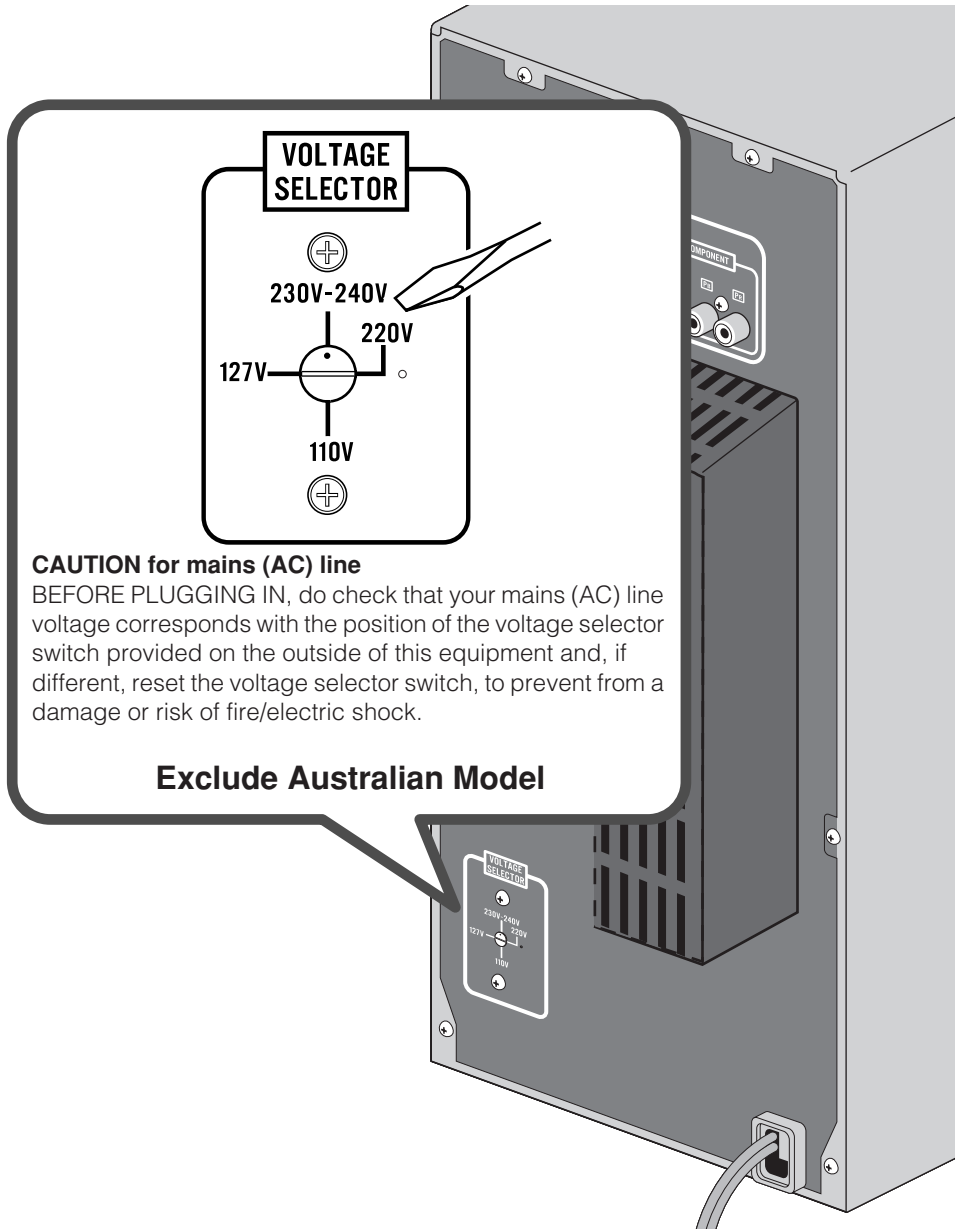
Remote control



Main unit



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



CAUTION for mains (AC) line

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

Exclude Australian Model

JVC

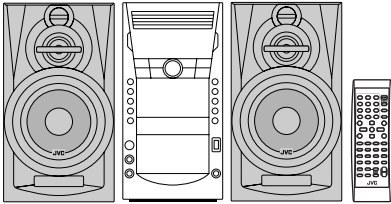


JVC

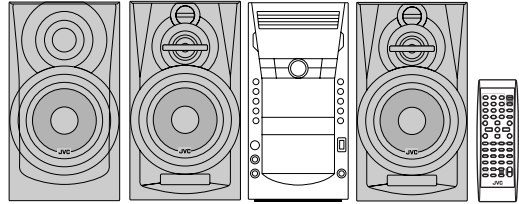


COMPACT COMPONENT SYSTEM

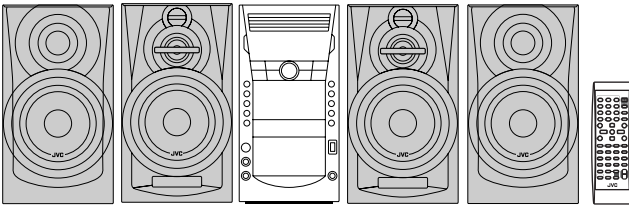
CA-DXJ30 CA-DXJ21 CA-DXJ11



CA-DXJ11



CA-DXJ21



CA-DXJ30



CA-DXJ30



CA-DXJ11/J21



MPEG-4
ASF PLAYBACK



MP3/WMA/WAV



MPEG-4
ASF PLAYBACK

VarioBASS



ACTIVE BASS
EXTENSION

Digital Direct Progressive Scan


CA-DXJ30



INSTRUCTIONS

Warnings, Cautions and Others

Caution— (standby/on) button!

Disconnect the mains plug to shut the power off completely (the STANDBY lamp goes off). When installing the apparatus, ensure that the plug is easily accessible. The  button in any position does not disconnect the mains line.

- When the System is on standby, the STANDBY lamp lights red.
- When the System is turned on, the STANDBY lamp goes off.

The power can be remote controlled.

CAUTION

To reduce the risk of electrical shocks, fire, etc.:

1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

CAUTION

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

CAUTION

Excessive sound pressure from earphones or headphones can cause hearing loss.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover or cabinet. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and/or invisible Class 1M laser radiation when open. Do not view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED INSIDE THE UNIT.

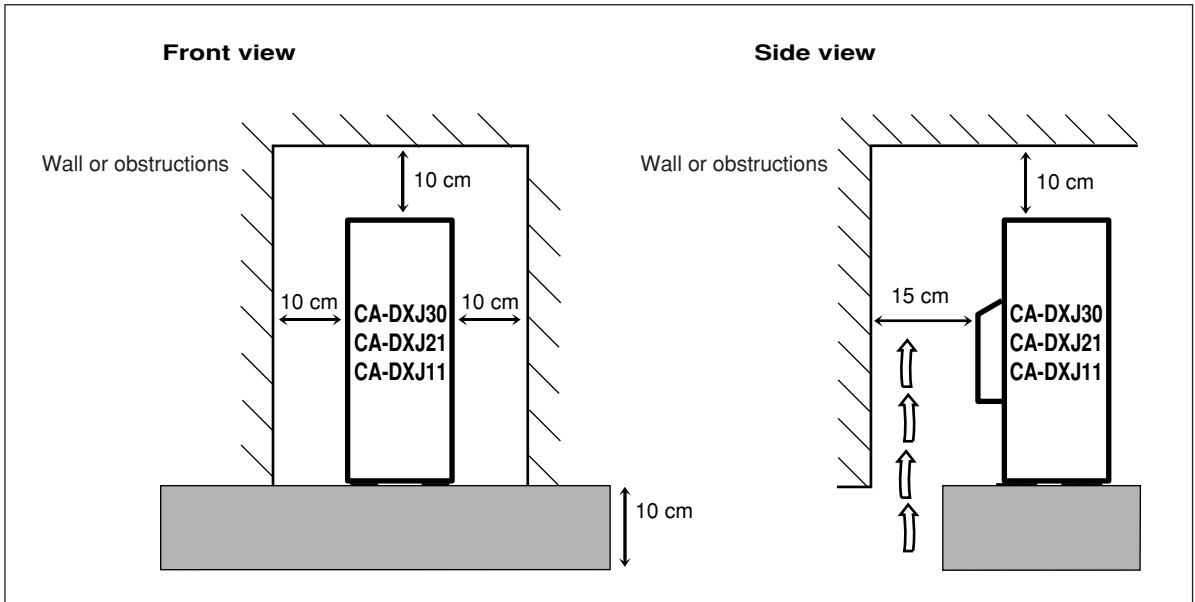
CAUTION VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS IEC60825-1:2001 (EN6)	ATTENTION RAYONNEMENT LASER VISIBLE ET/OU LASER RADIATION INVISIBLE DE CLASSE 1M UNE FOIS OUVERT, NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	AVISO RADIACION LASER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTA ABIERTO, NO MIRAR DIRECTAMENTE CON INSTRUMENTAL OPTICO. (ESP)	VARNING SYNLIG OCH/ELLER DÄRLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	注意 この装置はクラス1M レーザー放射が 発生する。 光学器具で直接 見ないでください。 (JPN)	CAUTION VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (EN6) LH44803-003A
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Caution: Proper Ventilation

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

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



Introduction

Playable Disc/File Types

INFO



The “√” in the list below shows available disc/file types.

Recording format		Media type		
		CD-R/-RW ^{*2}	DVD-R/-RW, +R/+RW ^{*3}	USB mass storage class device
Discs	CD-DA (normal CD)	√	—	—
	VCD/SVCD	√	—	—
	DVD Video	—	√	—
	DVD Audio ^{*1}	—	√	—
	DVD-VR	—	√ ^{*4}	—
AV files	Audio file: MP3/WMA/WAV	√	√	√
	Video file: MPEG-1/MPEG-2/ASF/DivX	√	√	√
	Still picture file: JPEG	√	√	√

*1 CA-DXJ30 only

*2 Recorded with “ISO 9660” format.

*3 Recorded with “UDF-Bridge” format.

*4 Not applicable for +R/+RW.

In addition to the above discs/files, this System can play back audio data recorded on CD-Extra and DVD/CD Text.

- The following discs cannot be played back: DVD-RAM, CD-I (CD-I Ready), Photo CD and CD-G (CD-Graphics).
Playing back these discs will generate noise and damage the speakers.
- CA-DXJ11 and CA-DXJ21 cannot play back DVD-VR disc with CPRM (Content Protection for Recordable Media).
- DVD Logo is a trademark of DVD Format/Logo Licensing Corporation.
- In this manual, “file” and “track” are interchangeably used for AV file operations.
- It is possible to play back finalized +R/+RW (DVD Video format only) discs.

Caution for DualDisc playback:

The Non-DVD side of a “DualDisc” does not comply with the “Compact Disc Digital Audio” standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

About color system

This System accommodates both NTSC and PAL system and can play back discs/files recorded in either system. To change the color system, see page 6.

Note on Region Code

DVD players and DVD Video have their own Region Code numbers. This System can play back only DVD Video with an appropriate Region Code number.

- For details, see “Specifications” on page 47

EX.: For Southeast Asia



Audio formats

The System can play back the following digital audio formats.

- **LPCM** (Linear PCM), **DIGITAL** (Dolby Digital), **DTS** (Digital Theater Systems), **MPEG Audio**, **MLP** (Meridian Lossless Packing)
- Multi-channel sound will be downmixed into 2-channels. To enjoy multi-channel sound, connect a compatible decoder or an amplifier with a compatible decoder to the **OPTICAL DIGITAL OUTPUT** terminal on the rear.

How to Read This Manual

- Button and control operations are explained in the table below.
- **Some related tips and notes are explained later in the sections “Learning More about This System” and “Troubleshooting,” but not in the same section explaining the operations (INFO indicates that the content has some information).**

	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 a press (in the example, 2 seconds).
	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 main unit.

Precautions

Installation

- Install the System in a location with adequate ventilation to prevent internal heat build-up 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.

- Install in a place which is level, dry and neither too hot nor too cold—between 5°C and 35°C.
- Leave sufficient distance between the System and the TV.
- Keep the speakers away from the TV to avoid interference with the 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 in the lenses on 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

- Make sure there is good ventilation around the System. Poor ventilation could overheat and damage the System. –A cooling fan is inside the System to prevent heat build-up.



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

Others

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



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

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

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

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Connections

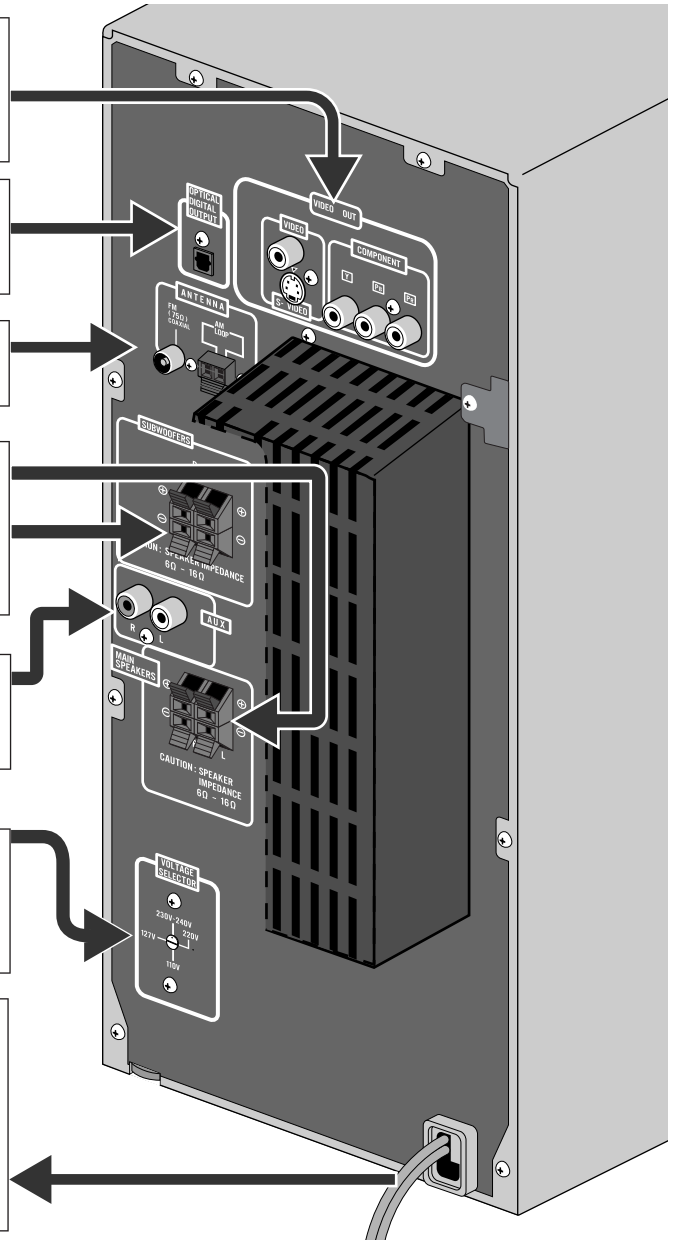
Do not connect the AC power cord until all other connections have been made.

- Connect VIDEO OUT directly to the video input of your TV. Connecting VIDEO OUT to a TV via a VCR may interfere with your viewing when playing back a copy-protected source. Connecting VIDEO OUT to an integrated TV/VCR system may interfere with your viewing.

Supplied accessories

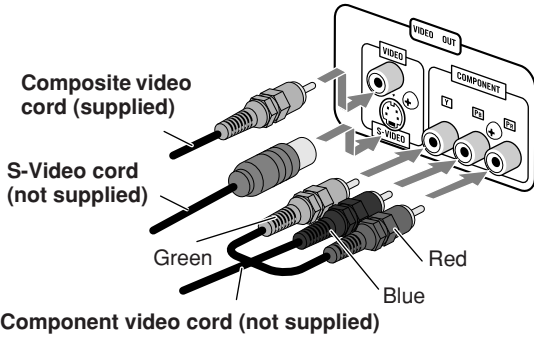
- FM antenna (x1)
 - AM loop antenna (x1)
 - Composite video cord (x1)
 - Remote control (x1)
 - Batteries (x2)
 - AC plug adapter (x1)
(not supplied for Australia, Thailand and the Middle East.)
- If any item is missing, consult your dealer immediately.

- 1 From the video input of TV/monitor**
See page 4.
CA-DXJ11 and CA-DXJ21 do not have component jacks.
- 2 From the digital input of digital audio component**
See page 4.
- 3 From AM/FM antenna**
See page 4.
- 4 From the subwoofers (CA-DXJ30 only)**
See page 5.
From the speakers
See page 5.
CA-DXJ21 has 3 speaker terminals.
- 5 From the analog audio output of auxiliary equipment (VCR, etc.)**
See page 4.
- 6 Voltage selector**
(not applicable for Australian models)
Before plugging in, confirm the position the voltage selector points at. See page 5.
- 7 To a wall outlet**
Plug the AC power cord only after all connections are complete.
 - If the wall outlet does not match the AC plug, use the supplied AC plug adapter (not supplied for Australian, Thailand and the Middle East models).



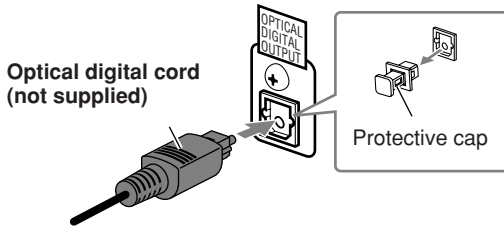
The illustration above is CA-DXJ30.

1 TV/monitor



- To select progressive scanning mode (see page 6), use COMPONENT jacks.
- Connect the VIDEO jack, S-VIDEO jack, or COMPONENT jacks (CA-DXJ30 only); whichever you want to use.
- You can get better picture quality in the order—Composite video ⇒ S video ⇒ Component video.

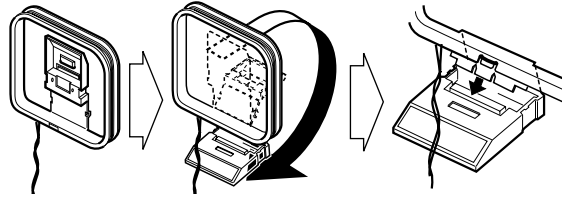
2 Digital audio component



- Set “DIGITAL AUDIO OUTPUT” in the “AUDIO” menu correctly according to the connected digital audio equipment (see page 38).
- The digital signal through the OPTICAL DIGITAL OUTPUT terminal is transmitted only when “DVD/CD” is selected as the source.

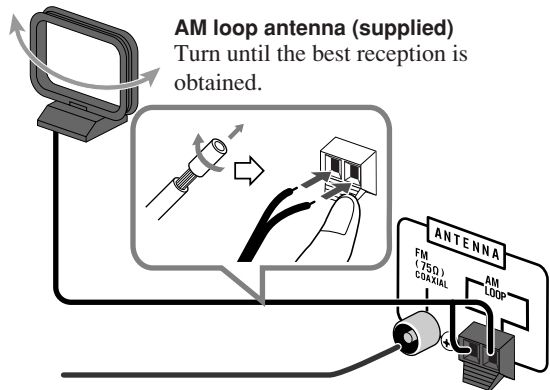
3 AM/FM antenna

To assemble the AM loop antenna



To connect AM/FM antenna

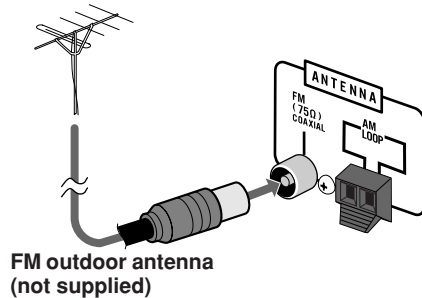
- If the antenna cord is covered with vinyl on the tip, twist and pull the vinyl off to remove.



FM antenna (supplied)

Extend it so that you can obtain the best reception.

For better FM reception

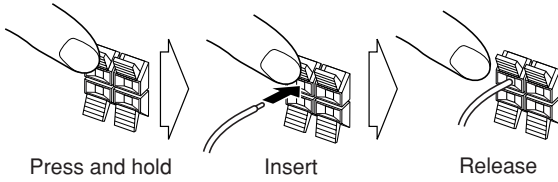


FM outdoor antenna (not supplied)

- Disconnect the supplied FM antenna, and connect an outdoor FM antenna using a 75 Ω wire with coaxial type connector (IEC or DIN45325).
- Make sure the antenna conductors do not touch any other terminals, connecting cords or the 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.

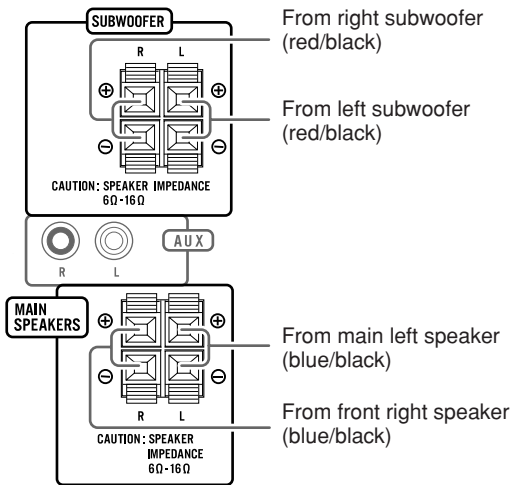
4 Speakers

To connect the speaker cords

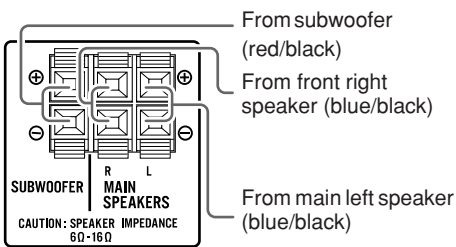


- When connecting the speaker cords, match their polarity with that of the speaker terminals: blue/red to (+) and black to (-).

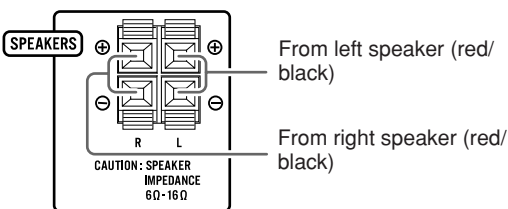
For CA-DXJ30



For CA-DXJ21



For CA-DXJ11



- Use only speakers with the same speaker impedance as indicated by the speaker terminals on the rear of the System.
- The front speakers and subwoofer(s) are magnetically shielded to avoid color distortions on TVs. However, if not installed properly, it may cause color distortions. So, pay attention to the following when installing the speakers.
 - When placing the speakers near a TV set, turn off the TV's main power switch or unplug it before installing the speakers.

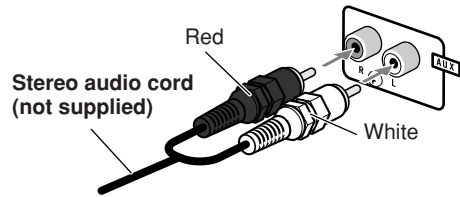
Then wait at least 30 minutes before turning on the TV's main power switch again.

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



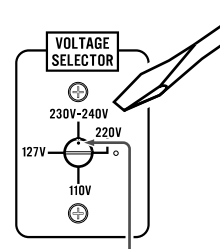
- DO NOT connect more than one speaker to each terminal.
- DO NOT push or pull the speakers as this will damage the foot spacers at the bottom of the speakers.

5 Auxiliary equipment



6 Voltage selector

(not applicable for Australian models)



Voltage mark

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

7 Power cord

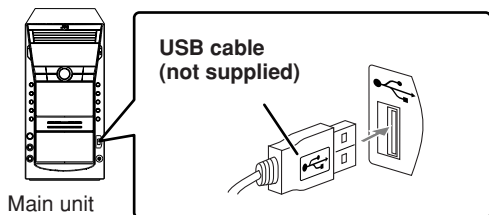
Plug the AC power cord to a wall outlet.



DO NOT plug in before setting the voltage selector and all connection procedures are completed.

Connecting a USB Mass storage class device

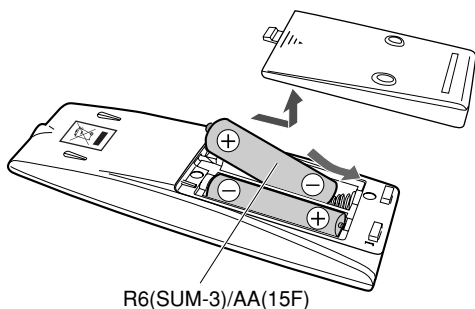
You can connect a USB mass storage class device such as a USB flash memory, hard disk drive, multimedia card reader, digital camera, etc. to this System.



- You cannot connect a personal computer to the \bullet (USB MEMORY) terminal of the System.
- When connecting with a USB cable, use the USB 2.0 cable whose length is less than 1m.

Preparing the Remote Control

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



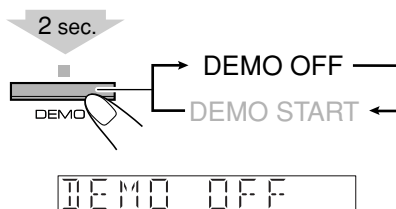
When using the remote control, point the top of the remote control toward the remote sensor as directly as possible. If you operate it from a diagonal position, the operating range (approx. 5 m) may be shorter.

- If the range of effectiveness of the remote control decreases, replace both batteries.

Caution:

Battery shall not be exposed to excessive heat such as sunshine, fire or the like.

Cancelling the Demonstration



To start the demonstration, select DEMO START.

Changing the Color System and Scanning Mode



INFO

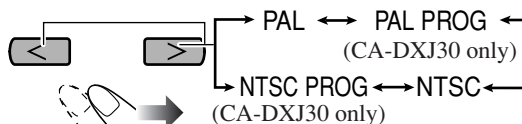
You can select the video output to match it to the color system of your TV (NTSC or PAL).

- (CA-DXJ30 only) If you connect a progressive TV through the COMPONENT jacks, you can enjoy a high quality picture by selecting progressive scanning mode.
- You can change the setting only while playback is stopped.

1 Enter the color system setting mode.

For CA-DXJ11/J21	For CA-DXJ30
<p>2 sec.</p> <p>FADE MUTING NTSC/PAL</p>	<p>2 sec.</p> <p>FADE MUTING SCAN MODE</p>

2 Select the color system and scanning mode.



NTSC / PAL

NTSC or PAL Interlaced scanning. For a conventional NTSC or PAL TV.

NTSC PROG/ PAL PROG (CA-DXJ30 only)

NTSC or PAL Progressive scanning. For a progressive NTSC or PAL TV.

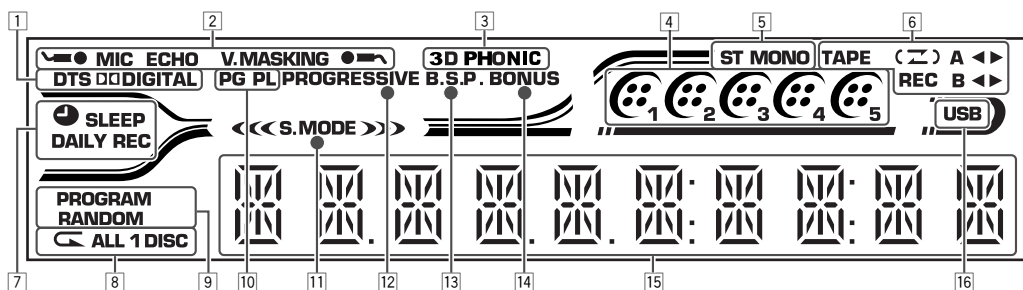
3 Store the setting.

ENTER/SET



Display Indication

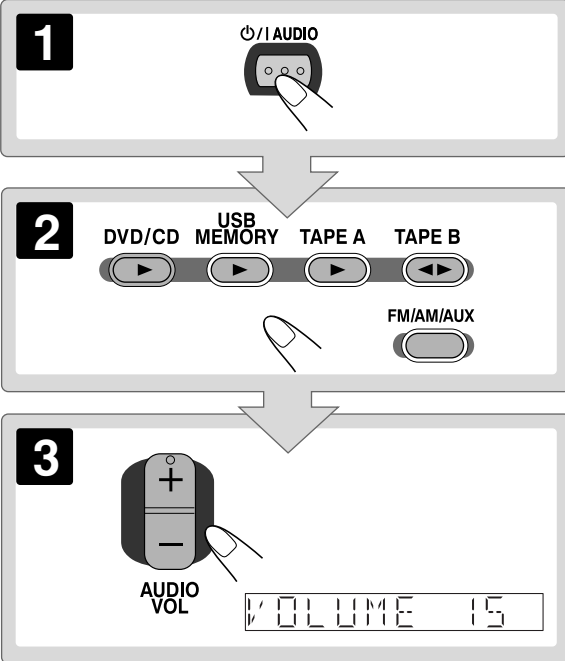
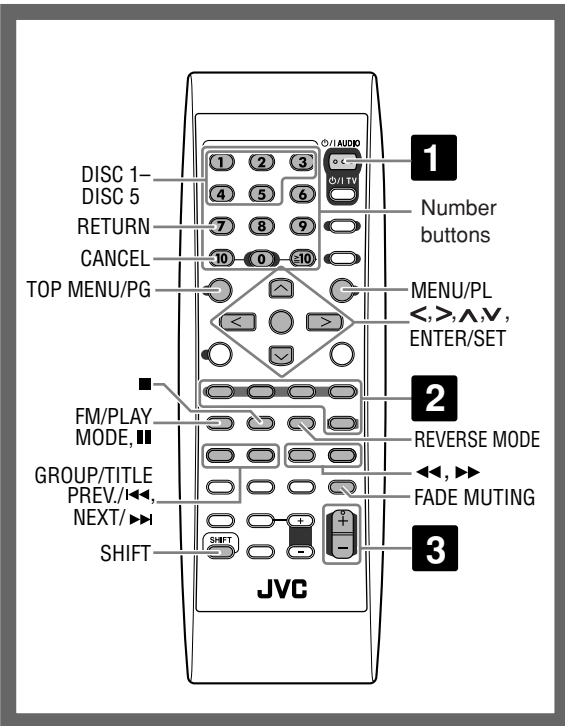
The indications on the display tell you a lot of things while you are operating the System. Before operating the System, be familiar with when and how the indicator illuminates on the display.



- 1 Source signal indicators
 - DTS: lights when DTS signals are detected.
 - DIGITAL: lights when Dolby Digital signals are detected.
- 2 Karaoke operation indicators
 - : lights when Mic Mixing is activated; flashes when Karaoke Scoring is in use.
 - ECHO: lights when Echo is activated.
 - V.MASKING: lights when Vocal Masking is activated.
- 3 3D PHONIC indicator
 - Lights when 3D Phonic is activated.
- 4 Disc indicators
 - 1 – 5: lights to indicate the current disc tray.
 - : lights when a disc is detected on the disc tray; rotates during playback or pause.
- 5 FM reception indicators
 - ST (stereo): lights while an FM stereo station with sufficient signal strength is tuned in.
 - MONO: lights while receiving an FM stereo station in monaural.
- 6 Tape operation indicators
 - TAPE: lights when a tape is loaded in either deck A or B.
 - (Reverse Mode): indicates the current Reverse Mode.
 - A: lights when a tape is in deck A.
 - B: lights when a tape is in deck B.
 - * (tape direction):
 - Lights to indicate the current tape running direction.
 - Flashes slowly during playback and recording.
 - Flashes quickly while rewinding a tape.
 - * indicator for deck A is available only when the tape is being rewinded.
 - REC: lights while recording.
- 7 Timer indicators
 - : lights when Daily Timer or Recording Timer is on standby, is working, or being set.
 - SLEEP: lights when the Sleep Timer is activated.
 - DAILY: lights when the Daily Timer is on standby; flashes while working or being set.
 - REC: lights when the Recording Timer is on standby; flashes while working or being set.
- 8 Repeat mode indicators
 - : lights when Repeat Play is activated.
 - ALL: lights when All File Repeat is activated (only for USB)
 - ALL DISC: lights when All Disc Repeat is activated.
 - 1 DISC: lights when One Disc Repeat is activated.
 - 1: lights when One Track/Chapter/File/Step Repeat is activated.
- 9 Play mode indicators
 - PROGRAM: lights when Program Play is activated.
 - RANDOM: lights when Random Play is activated.
- 10 PG/PL indicator
 - PG: lights when Original Program is selected for DVD-VR playback.
 - PL: lights when Play List is selected for DVD-VR playback.
- 11 Sound Mode indicators
 - S.MODE: lights when one of the Sound Modes is activated.
 - : lights when one of the Sound Modes with surround effect is activated.
- 12 PROGRESSIVE indicator (CA-DXJ30 only)
 - Lights when the progressive scanning mode is selected.
- 13 B.S.P. indicator (CA-DXJ30 only)
 - Lights when browsable still pictures on DVD Audio are available.
- 14 BONUS indicator (CA-DXJ30 only)
 - Lights when DVD Audio with bonus group is detected.
- 15 Main display
- 16 USB indicator
 - Lights when “USB” is selected as the source.

Daily Operations—Playback

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



1 Turn on the power.

The STANDBY lamp on the main unit goes off.

- Without pressing **⏻/AUDIO**, the System also 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 playback.

- To listen to the sound of the external component, press **FM/AM/AUX** repeatedly to select “AUX” as the source, then start playback on the external component.

3 Adjust the volume.

To turn off (standby) the System



The STANDBY lamp on the main unit lights in red.

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

For private listening

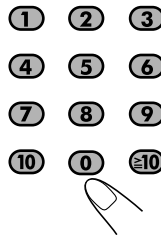
Connect a pair of headphones to the PHONES jack on the main unit. The sound will no longer come out of the speakers. **Be sure to turn down the volume before connecting or putting on the headphones.**

- Disconnecting the headphones will activate the speakers again.



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

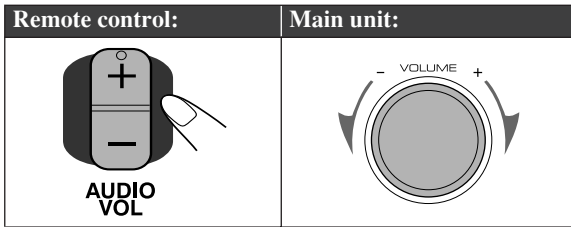
How to select a number



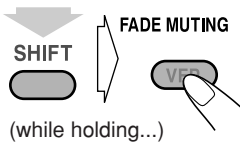
- To select 5, press 5.
- To select 10, press 10.
- To select 15, press ≥ 10 , 1, then 5.
- To select 30, press ≥ 10 , 3, then 0.
- To select 125, press ≥ 10 , ≥ 10 , 1, 2, then 5.

Adjusting the Volume

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



To drop the volume in a moment



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

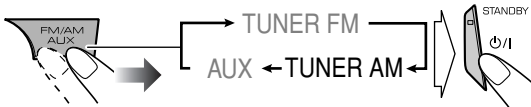
Listening to the Radio

INFO

To select the AM tuner interval spacing

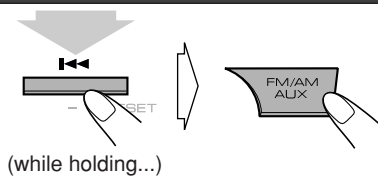
Some countries space AM stations 9 kHz apart, and other countries use 10 kHz spacing.

1 Select “TUNER AM,” then turn off (standby) the System.

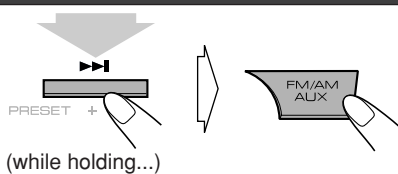


2 Select the AM tuner interval spacing.

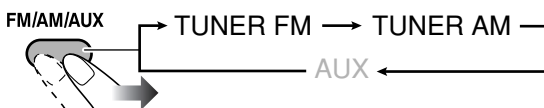
To select 9 kHz:



To select 10 kHz:

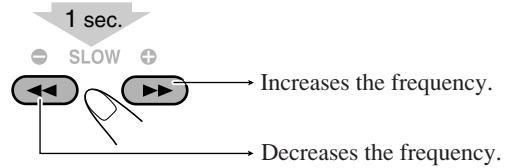


To select the band (FM/AM)



To tune in to a station

While FM or AM is selected...



Frequency starts changing on the display.

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

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

To manually stop the searching, press either button.

If the FM reception is poor



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 stations

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.

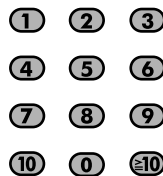
ENTER/SET



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

- To cancel the operation during procedure, press CANCEL while holding SHIFT.

3 Select a preset number for the station you store.



- To select a number, see “How to select a number” on page 8.

- You can also use ►►/◄◄ buttons.



4 Store the station.

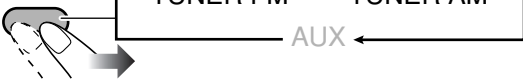
ENTER/SET



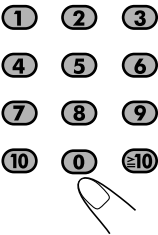
To tune in to a preset station

1 Select the band (FM or AM).

FM/AM/AUX



2 Select the preset number for the station you stored.



- To select a number, see “How to select a number” on page 8.
- You can also use ►/◄ buttons.

Playing Back a Disc/USB Mass Storage

Class Device

INFO

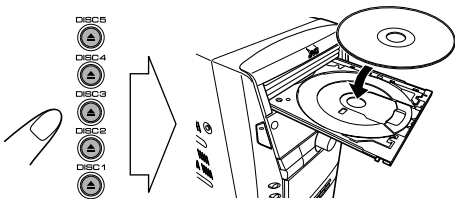
IMPORTANT: Before playing a disc/USB mass storage class device, make sure of the following...

- Turn on the TV and select an appropriate input mode on the TV to view the pictures or on-screen displays.
- For disc/USB mass storage class device playback, you can change the initial setting to your preference. See “Setup Menu Operations” on page 37.

If “⊘” appears on the TV screen when you press a button, the disc/USB mass storage class device cannot perform the operation you have tried to do.

- For playback of AV files, see also “Operations Using the Control Screen” on page 27.

To insert discs

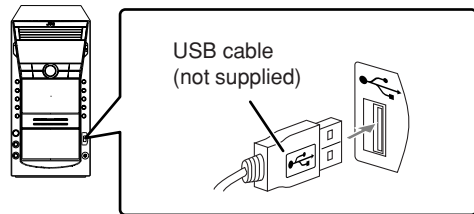


- When using an 8 cm disc, place it on the inner circle of the disc tray.

To close the disc tray, press the same ▲ button again.

- If you press ► for the same tray, the disc tray closes and playback starts automatically.

To connect a USB mass storage class device



- Always set the volume to the minimum level when connecting or disconnecting the USB mass storage class device.
- To disconnect the USB mass storage class device safely, turn off the System before disconnecting the device.

To play back disc/USB mass storage class device

To start:	
Disc DVD/CD	USB mass storage class device USB MEMORY
Playback starts.	
To pause:	
FM/PLAY MODE	To release it, press DVD/CD ► or USB MEMORY ►.
To stop:	

While playing, this System can store the stop point (not applicable for CD). When you start playback again by pressing DVD/CD ► or USB MEMORY ►, it starts from the position where you have stopped—Resume Play. (“RESUME” appears when you stop playback.) To stop completely while Resume is activated, press ■ twice. (To cancel Resume, see “RESUME” on page 38.)

On-screen guide icons

- During playback, the following icons may appear for a while on the TV screen:

Appears at the beginning of a scene containing multi-angle views.

Appears at the beginning of a scene containing multi-audio languages.

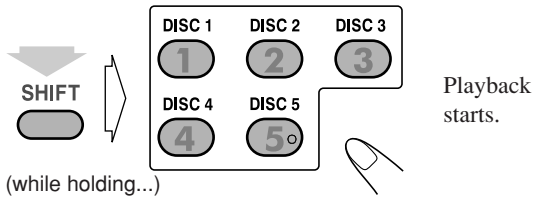
Appears at the beginning of a scene containing multi-subtitle languages.

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

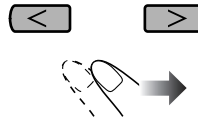


- To deactivate the on-screen guide icons, see “ON SCREEN GUIDE” in “OTHERS” menu on page 38.

To select a disc

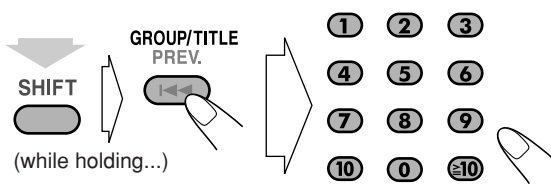


- For DivX files, each time you press the > or < button, you can skip to a scene of 30 seconds or 5 minutes away depending on the DivX file.



To select a title/group

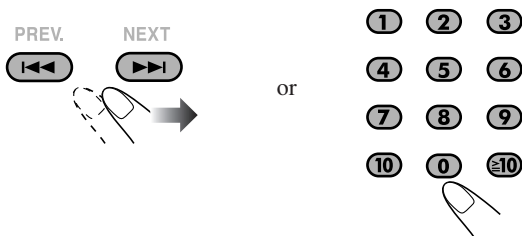
While playing...



- To select a number, see “How to select a number” on page 8.

To select a chapter/track

While playing...

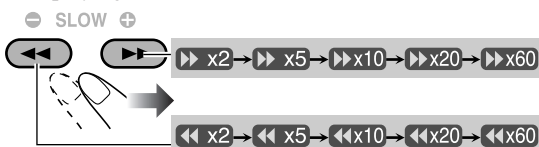


- The first time you press <<, you will go back to the beginning of the current chapter/track.
- To select a number, see “How to select a number” on page 8.

To locate a particular portion

- This does not function for JPEG files.

While playing...



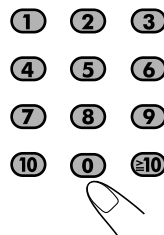
- Search speed changes as above for all discs/files except for MP3/WMA/WAV/DivX files. For MP3/WMA/WAV/DivX files, search speed is different.
- No sound comes out if searching is carried out while showing the moving picture.

- To return to normal playback, press DVD/CD ► or USB MEMORY ►.

To select an item directly

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

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



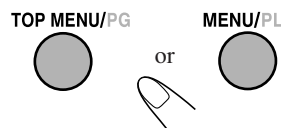
- To select a number, see “How to select a number” on page 8.

To play back by using the disc menu

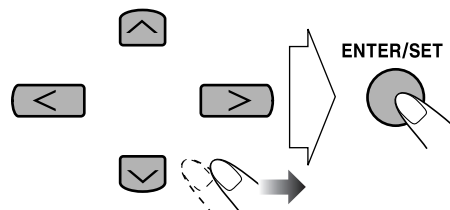
You can operate the disc play using the disc menu.

■ For DVD Video/DVD Audio

1 Show the disc menu.



2 Select an item on the disc menu.

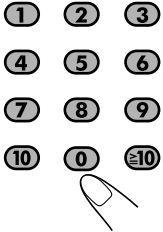


- On some discs, you can also select items by entering the number using the number buttons. To select a number, see “How to select a number” on page 8.

■ For SVCD/VCD with PBC

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

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



- To select a number, see "How to select a number" on page 8.

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

To cancel PBC, press ■, then press ►►.

- You can also cancel PBC by pressing ■, then pressing the number buttons. Playback starts with the selected track.

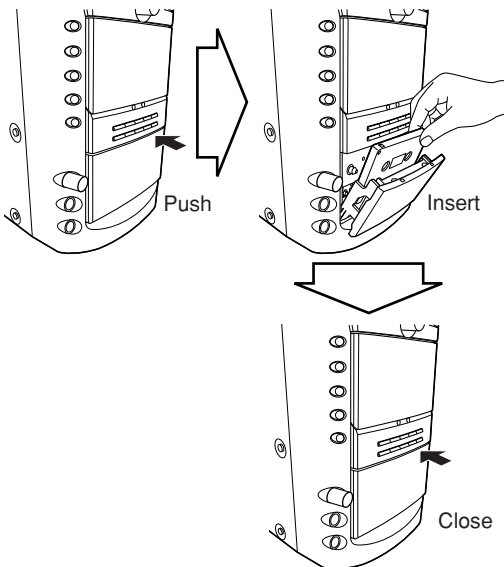
To reactivate PBC, press ■, then press ◀◀.

Playing Back a Tape ●●●●●●●●

To insert a tape

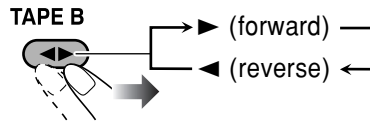
You can play back type I tapes.

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

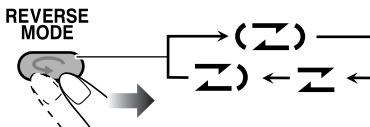


To start playback:	To stop:
To rewind or fast-forward tape:	

To change the tape running direction (deck B only)



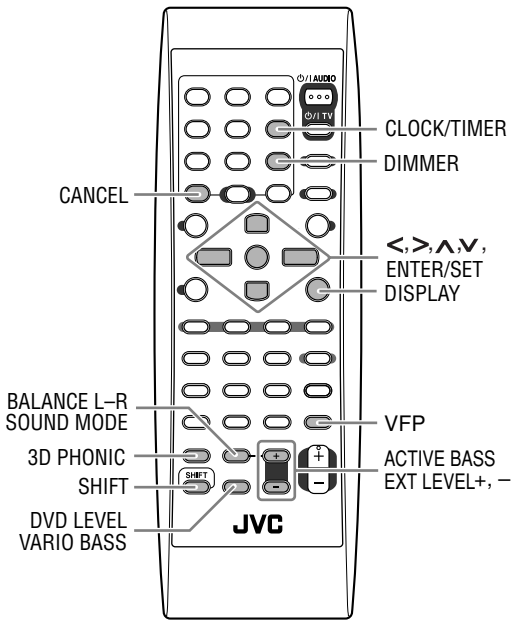
To reverse the tape automatically (deck B only)



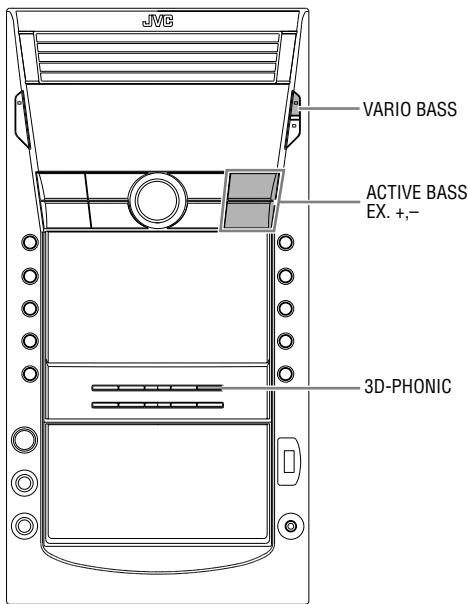
(Z)	Tape is reversed, and playback repeats until you stop it.
≡	Tape is not reversed. When the current side of the tape reaches its end, playback stops.
Z)	Tape is reversed once.

Daily Operations—Sound & Other Adjustments

Remote Control



Main unit

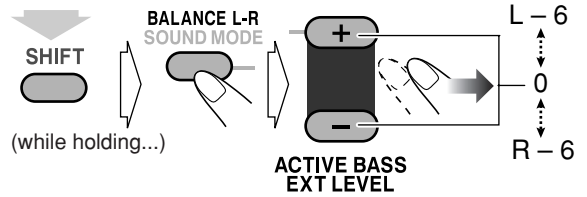


Adjusting the Speaker Output

Balance



You can adjust the speaker output balance.

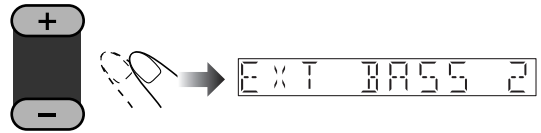


Reinforcing the Bass Sound

INFO

You can adjust the Active Bass level from level 1 (minimum) to level 4 (maximum).

Initial setting: 4



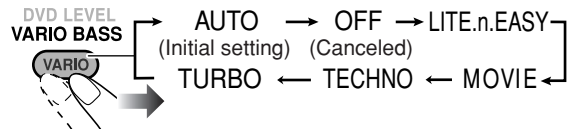
ACTIVE BASS EXT LEVEL

- This function is not available when VARIO BASS is set to "OFF" or headphones are plugged in.

Applying an Optimal Bass Sound Effect

-VARIO BASS

VARIO BASS function adjusts bass sound characteristics to create a sound suitable for the playback source of your preference.



AUTO

The System automatically applies **TURBO**, **LITE.n.EASY**, **MOVIE** or **TECHNO** according to the playback source (initial setting).

LITE.n.EASY

Suitable for Karaoke and classical music. You can obtain a comfortable bass sound.

MOVIE

Suitable for a video source and playback of external component. You can obtain a strong bass sound.

TECHNO

Suitable for disco or techno music and playback of cassette tapes. You can obtain a strong bouncy bass sound.

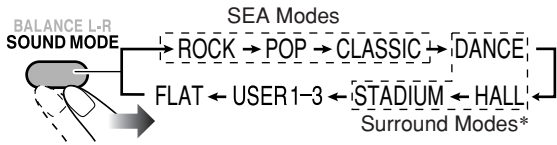
TURBO

Suitable for most kinds of music and playback of external component. You can obtain a balanced bass sound.

Selecting the Sound Modes



You can select one of the preset Sound Modes.



SEA (Sound Effect Amplifier) Modes	
ROCK	Boosts low and high frequency. Good for acoustic music (initial setting).
POP	Good for music with an emphasis on vocal.
CLASSIC	Good for classical music.
Surround Modes*	
DANCE	Increases resonance and bass.
HALL	Adds depth and brilliance to the sound.
STADIUM	Adds clarity and spreads the sound, as in an outdoor stadium.
User Modes	
USER1/2/3	Your individual mode stored in memory. See the next column “Creating Your Own Sound Modes—User Mode.”

* Surround elements are added to the SEA elements to create being-there feel in your room.

- While one of the Sound Modes is activated, S.MODE indicator lights up.
- While one of the Sound Modes with surround effect is activated, “<<<< >>>>” lights up.

To cancel the Sound Mode, select “FLAT.”

Creating Your Own Sound

INFO

Modes—User Mode



You can adjust the preset Sound Modes to create your own Sound Modes which suit your taste. The changed settings can be stored as the USER1, USER2 and USER3 Modes.

While “USER1,” “USER2” or “USER3” is shown on the display...

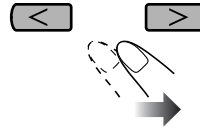
1

ENTER/SET

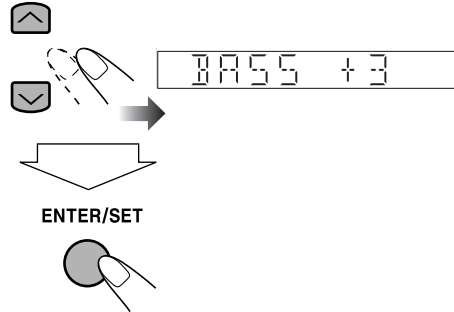


2 Select the SEA parameter you want to adjust.

- ① Adjust BASS.
- ② Adjust MID (Mid-range).
- ③ Adjust TRE (Treble).

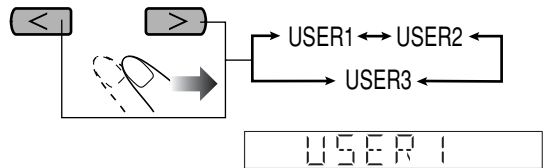


3 Adjust the parameter.



- You can adjust the bass, mid and treble level from –3 to +3.
- Repeat steps **2** and **3** to adjust the other parameters.

4 Select one of the User Modes.



5 Store the setting.

ENTER/SET



- You can adjust the SEA pattern temporarily by doing the operation on steps **1** to **3**. The adjustment is cleared when you change the sound mode to another mode.
- To create your own Sound Mode with surround effect, select DANCE, HALL or STADIUM first, then go through steps **1** to **5**.

Creating 3-Dimensional Sound

Field—3D Phonic



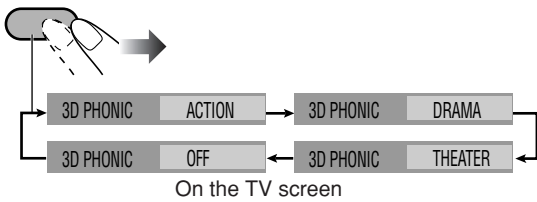
INFO

This function is available only for disc/USB mass storage class device playback.

- This function is not available for DivX files.

While playing a disc/USB mass storage class device...

3D PHONIC



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.

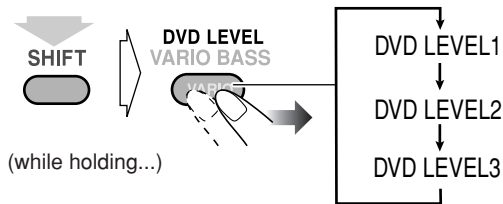
Presetting Automatic DVD Video

Sound Increase Level



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

- This function is available only for DVD Video discs.



- As the number increases, sound level also increases.
- The initial setting is “DVD LEVEL3.”

Changing the Picture Tone

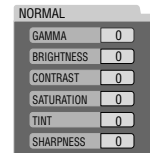


While viewing a playback picture on the TV, you can select the preset picture tone, or adjust it and store your own preference.

To select a preset picture tone

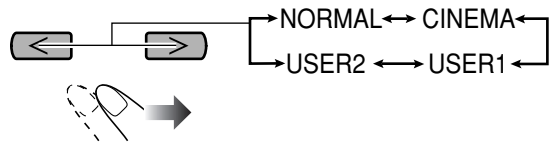
- 1 While playing, display VFP setting screen.

FADE MUTING



On the TV screen

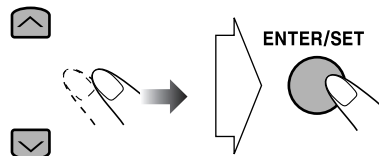
- 2 Select a preset picture tone.



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

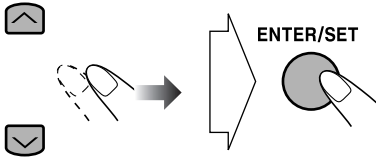
To adjust the picture tone

- 1 Select “USER1” or “USER2.”
 - Follow steps 1 and 2 above.
- 2 Select a parameter you want to adjust.



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

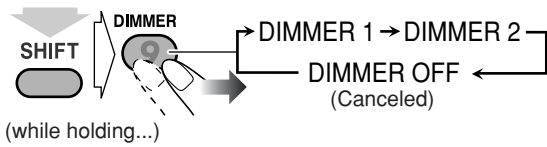
3 Adjust the parameter.



4 Repeat steps 2 to 3 to adjust other parameters.

To erase the VFP screen, press VFP again.

Changing the Display Brightness Remote ONLY >>>



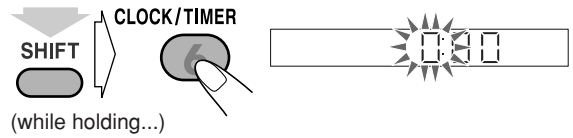
DIMMER 1	Dims the display.
DIMMER 2	Dims the display more than DIMMER 1.

Setting the Clock Remote ONLY >>> INFO

Without setting the built-in clock, you cannot use any timers except the Sleep timer.

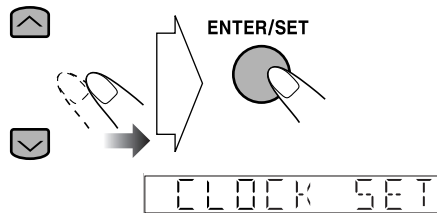
- To exit from the clock setting, press CLOCK/TIMER as required.
- To correct a misentry during the process, press CANCEL while holding SHIFT. You can return to the previous step.

1 Activate clock setting mode.



- If you have already adjusted the clock before, press the button repeatedly until the clock time starts flashing.

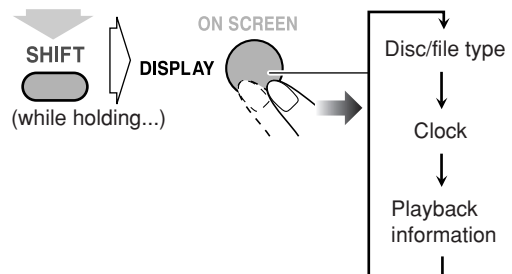
2 Adjust the hour, then minute.



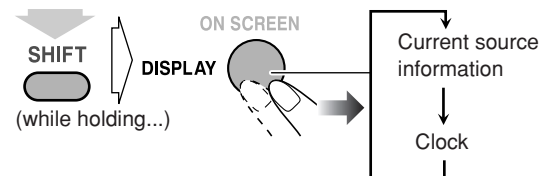
Now the built-in clock starts working.

Changing the display information

For "DVD/CD" and "USB MEMORY":

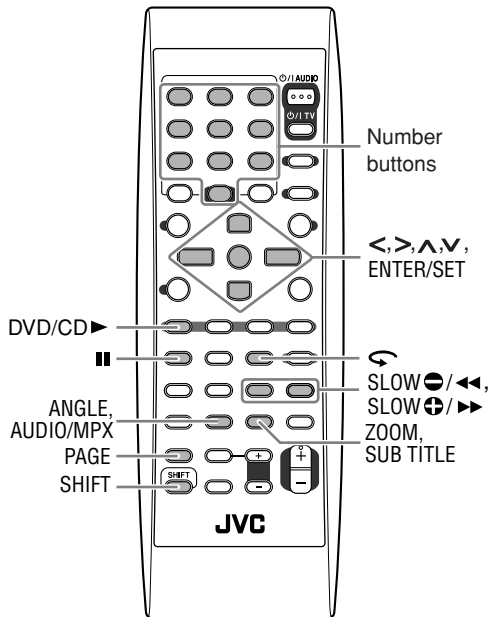


For "TAPE," "TUNER FM," "TUNER AM" and "AUX":



Unique Video Disc/File Operations

Remote Control



Selecting the Audio Track



For DVD Video/DivX: While playing back a chapter/file containing audio languages, you can select the language to listen to.

For DVD Audio (CA-DXJ30 only): While playing back a track containing audio channels, you can select the audio channel to listen to.

For DVD-VR/SVCD/VCD: While playing back a chapter/track, you can select the audio channel to play.

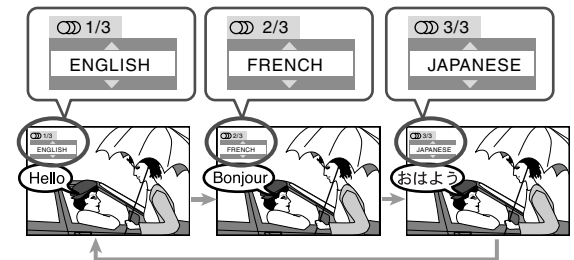
- You can also select the audio track using the on-screen bar (see page 24).

ANGLE AUDIO/MPX

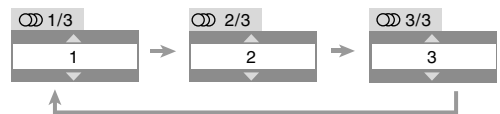


While playing DVD Video...

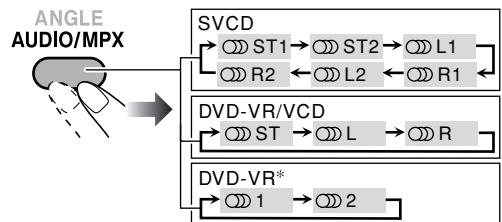
Ex.:



While playing a DVD Audio/DivX...



While playing a DVD-VR, 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.

- * Example: when two multi-channel streams are recorded.
- SVCD can have 4 audio channels. SVCD usually uses these 4 channels to record two 2-channel recordings (ST1/ST2).

Selecting the Subtitle Language

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

For DVD-VR: While playing, you can turn the subtitle on or off.

For SVCD: While playing, the SUB TITLE button functions 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/DivX...

1 Display the subtitle selection window.

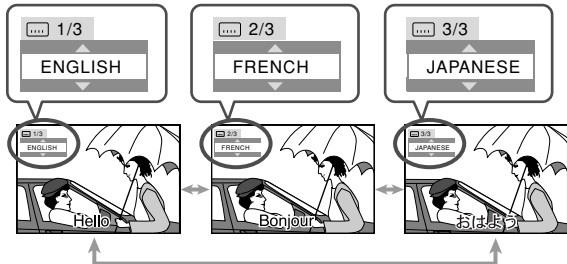
ZOOM
SUB TITLE



2 Select the subtitle language.



Ex.:



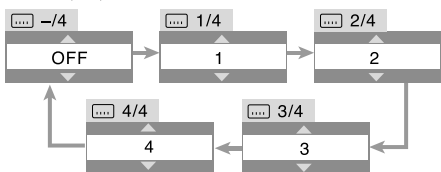
While playing a DVD-VR...

ZOOM
SUB TITLE



While playing an SVCD...

ZOOM
SUB TITLE

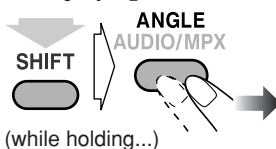


Selecting the View Angle

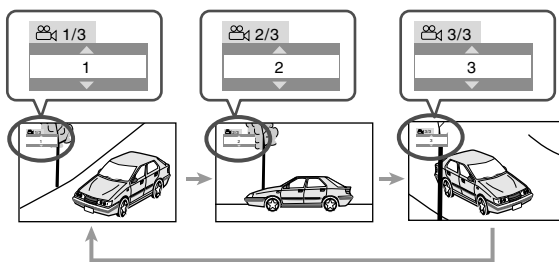
For DVD Video/DVD Audio only: While playing back a chapter containing multi-view angles, you can view the same scene from different angles.

- You can also select the view angle using the on-screen bar (see page 24).

While playing...



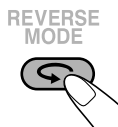
Ex.:



Reviewing the Playback Quickly

For DVD Video/DVD-VR only: You can move back the playback position by 10 seconds (only within the same title)—Glance Back.

While playing...

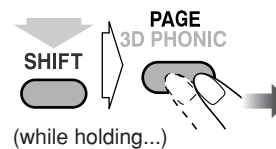


Selecting Browsable Still Pictures

(CA-DXJ30 only)

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

- If a track is linked to browsable still pictures (B.S.P.), they are usually shown in turn automatically during playback.
- You can also select the “page” using the on-screen bar (see page 24).



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

Playing Back Bonus Group



(CA-DXJ30 only)

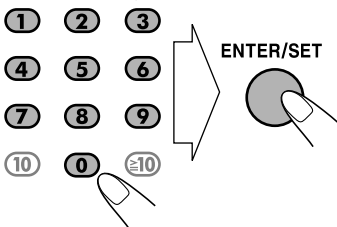
For DVD Audio only: Some DVD Audio discs have a special group called “bonus group” whose contents are not open to the public.

- 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 11.

2 Enter the key number.



3 Follow the interactive instruction shown on the TV screen.

To cancel the key number entry, press ■.

Special Picture Playback

INFO

Pause playback

While playing...



Playback pauses.

To resume normal playback, press DVD/CD ► or USB MEMORY ►.

Frame-by-frame playback

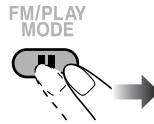
- This function is not available for ASF file.

1 While playing...



Playback pauses.

2 Advance the still picture frame by frame.



To resume normal playback, press DVD/CD ► or USB MEMORY ►.

Slow-motion playback

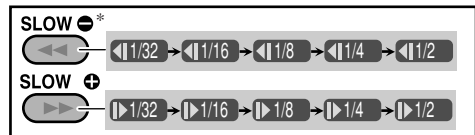
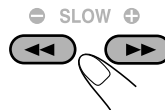
- This function is available only for moving picture files except MPEG-1/MPEG-2/ASF/DivX.

1 While playing...



Still picture appears.

2 Start slow-motion playback.



*Only for DVD Video.

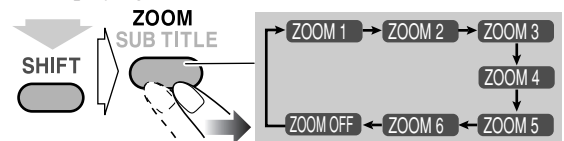
To resume normal playback, press DVD/CD ►.

Zoom



- For JPEG/ASF files, see page 28.

While playing...



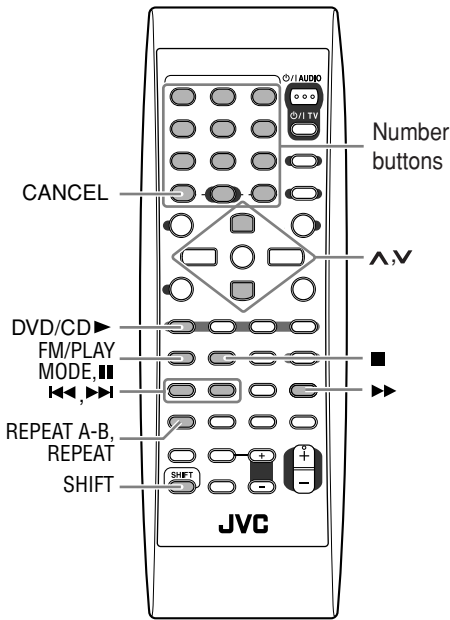
As the number increases, magnification also increases.

- You can move the zoomed-in area by pressing <, >, ^, v.

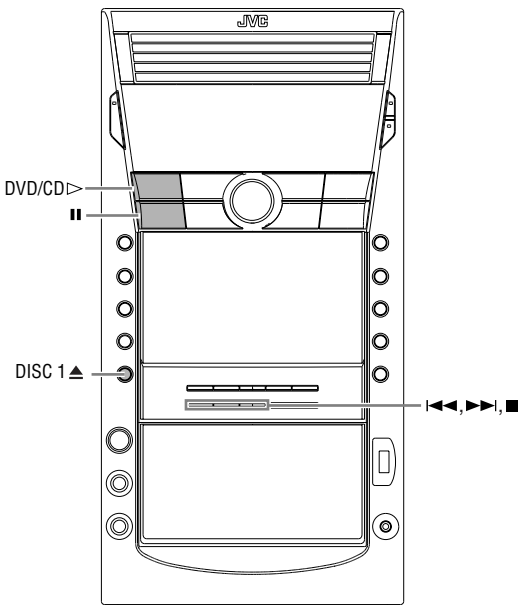
To cancel Zoom, press ZOOM repeatedly until “ZOOM OFF” appears on the TV screen.

Advanced Playback Operations

Remote Control



Main unit



Programming the Playing Order

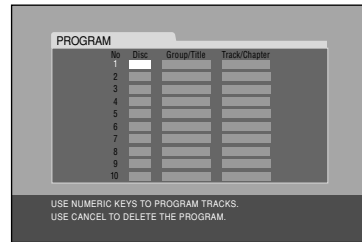
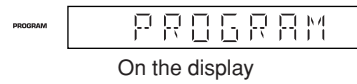
—Program Play



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

- Program Play cannot be used for files in a USB mass storage class device, Video files/JPEG files on a disc and DVD-VR.

1 Before starting playback, activate Program Play.



2 Select chapters/tracks/files you want for Program Play.

- ① Select a disc number.
 - ② For DVDs and Audio files only: Select a group/title number.
 - ③ Select a track/chapter number.
- To select a number, see “How to select a number” on page 8.

3 Repeat step 2 above until you complete your program.

4 Start playback.



Playback starts in the order you have programmed.

To skip:	To pause:	To stop*:
	<p>To release, press DVD/CD ►.</p>	

* Resume does not work for Program Play.

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:
<p>(while holding...)</p>	
To add steps in the program: Repeat step 2 on page 20.	

To exit from Program Play

Before or after playback...

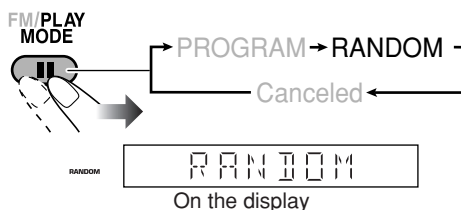


Playing at Random—Random Play

You can play the contents of all the loaded discs at random.

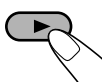
- Random Play cannot be used for files in a USB mass storage class device, Video files/JPEG files on a disc, DVD-VR and some DVDs.

1 Before starting playback, activate Random Play.



2 Start playback.

DVD/CD

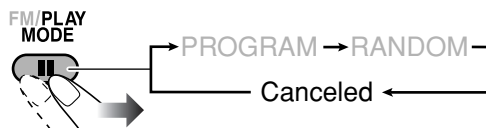


Playback of the current disc starts in a random order. When all chapters/tracks on the current disc are played, playback of the next disc starts. Random Play ends when all loaded discs are played.

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

To exit from Random Play

Before or after playback...



Playing Repeatedly—Repeat Play

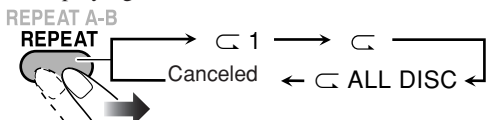
You can repeat playback.

- You can also select the repeat mode using the on-screen bar (See page 25. Not applicable for AV files and JPEG file.)
- For Video file/JPEG file and DVD-VR, see page 28.
- The indicator(s) lights on the display as follows to indicate the current repeat mode.

Repeat Play

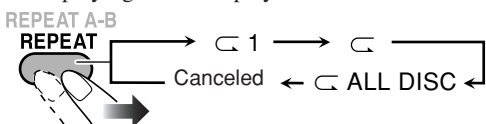
• For DVD Video:

While playing...



• For DVD Audio (CA-DXJ30 only):

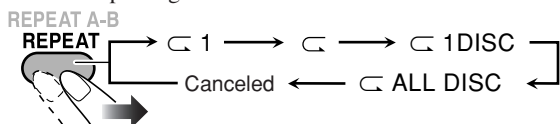
While playing or before playback...



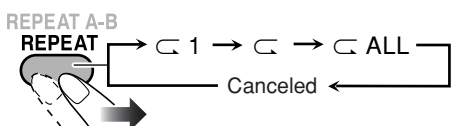
• For Audio files (MP3/WMA/WAV):

While playing or before playback...

When repeating Audio files on disc:

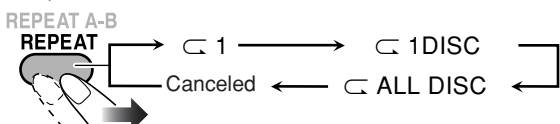


When repeating Audio files in a USB mass storage class device:



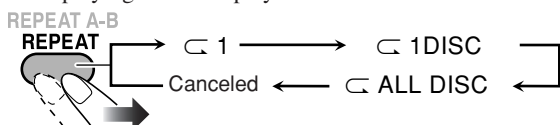
• For CD/SVCD/VCD:

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



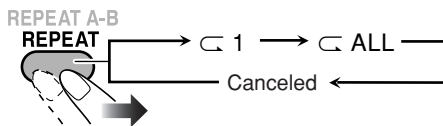
• For Random Play:

While playing or before playback...



• For Program Play:

While playing or before playback...



1	Repeats the current chapter/track/file.
ALL	Repeats the current title/group.
1 DISC*	Repeats the current disc.
ALL DISC*	Repeats all discs.
ALL	Repeats all files in a USB mass storage class device or all programmed chapters/tracks/files.

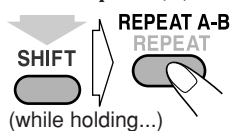
*These modes may not work correctly for DVDs.

A-B Repeat

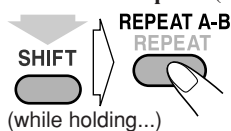
You can repeat playback of a desired portion by specifying the beginning (point A) and the ending (point B).

- A-B Repeat cannot be used for AV files and some DVDs.

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



2 Select the end point (B).



- You can search for the end point using the button.

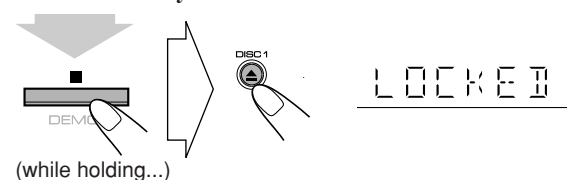
To cancel A-B Repeat, press REPEAT A-B again.

- A-B Repeat will also be canceled when you stop play or skip the chapter or track.

Prohibiting Disc Ejection—Child Lock

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

While on standby...

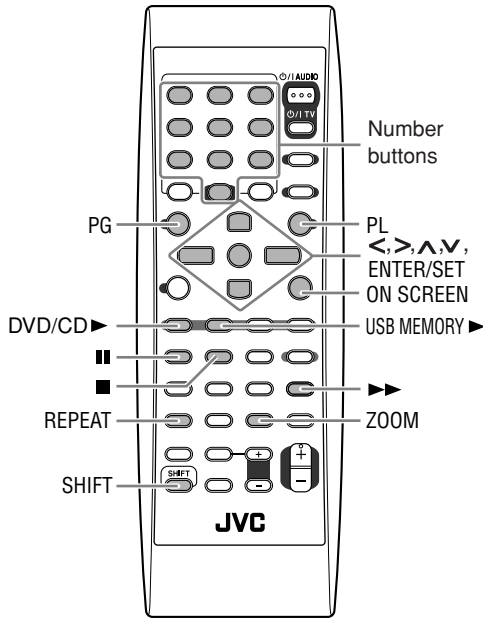


To cancel the prohibition, repeat the same procedure.

“UNLOCKED” appears on the display.

On-Screen Operations

Remote control

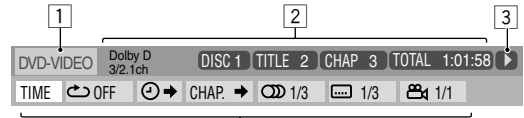


On-screen Bar Information

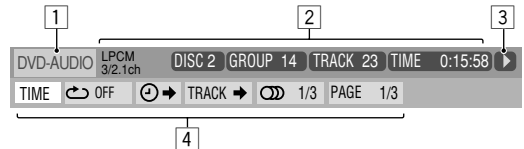
You can check the playback information and use some functions through the on-screen bar. (Not applicable for Audio files and JPEG files.)

On-screen bars

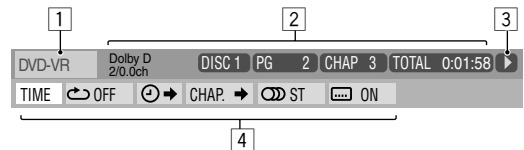
DVD Video



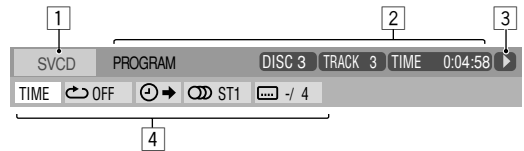
DVD Audio (CA-DXJ30 only)



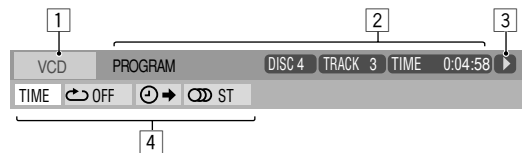
DVD-VR



SVCD



VCD



CD



Video file on a disc—MPEG-1/MPEG-2/ASF/DivX file



Video file in a USB mass storage class device—MPEG-1/MPEG-2/ASF/DivX file



1 Disc type/source type

2 Playback information

Indication	Meanings
Dolby D/ DTS/LPCM	Audio format
3/2.1 ch/ 2/0.0 ch	Channel number
PROGRAM/ RANDOM	Current play mode
DISC 1	Current disc
TITLE 2	Current title
CHAP 3	Current chapter
GROUP 1	Current group
TRACK 14	Current track
PG 2	Current program
PL 2	Current play list
TOTAL 1:25:58	Time indications

3 Playback conditions

Indication	Meanings
	Playback
	Forward/Reverse search
	Forward/Reverse slow-motion
	Pause
	Stop

4 Operation icons (on the pull-down menu)

Indication	Meanings
	Select to change the time indication (see also page 25).
	Select to repeat playback (see also page 25).
	Select for time search (see also page 26).
	Select for chapter search (see also page 26).
	Select for track search (see also page 26).
	Select to change the audio language or channel (see also page 17).
	Select to change subtitle language (see also page 18).
	Select to change view angle (see also page 18).
	Select to change the page (see also page 18).

5 Repeat Play setting for video files (See also page 28)

Operations Using the

On-screen Bar

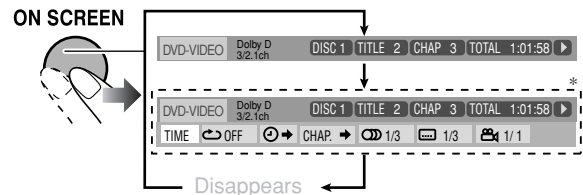


Basic operation procedures through the on-screen bar are as follows:

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.



* This does not appear for Video files.

2 Select (highlight) the item you want.

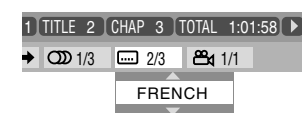
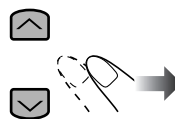


3 Display the pop-up window.

ENTER/SET



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



5 Finish the setting.

ENTER/SET Pop-up window disappears.



To erase the on-screen bar, press ON SCREEN again.

To change the time information

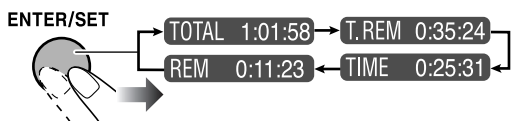
You can change the time information in the on-screen bar and the display window on the main unit.

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 time of the current disc/title.
TIME*	Elapsed playing time of the current chapter/track.
REM*	Remaining time of the current chapter/track.

*Not applicable for DVD-VR.

Repeat Play

- For Audio files, see also page 22.
- For Video files and JPEG file, see page 28.

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

- All discs except DVD: Repeat Play can be selected before starting playback.

2 Select .

3 Display the pop-up window.



4 Select the repeat mode you want.

ALL	Repeats all discs or all programmed tracks.
A-B	Repeats a desired portion (see below).
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.
PG	Repeats the current program (for DVD-VR only). See also page 28.
PL	Repeats the current play list (for DVD-VR only). See also page 28.
OFF	Cancels Repeat Play.

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

5 Finish the setting.

ENTER/SET Pop-up window disappears.



A-B Repeat

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

2 Select .

3 Display the pop-up window.



4 Select "A-B."



5 Select the start point (A).

ENTER/SET



- After selecting the starting point (A), you can search for the end point using .

6 Select the end point (B).

ENTER/SET



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

To cancel A-B Repeat, repeat steps 1 to 3, and select “OFF” in step 4.

Time Search

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

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

- All discs except DVD: Time Search can be used before starting playback.

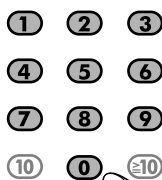
2 Select .

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 < to erase the last entry.

5 Finish the setting.

ENTER/SET



The System starts playing from the specified time.

Chapter/Track Search

You can search for the number of the item to play.

For DVD Video/DVD-VR: Chapter

For DVD Audio: Track

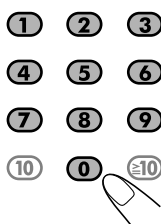
1 While playing a disc, display the on-screen bar with the pull-down menu.

2 Select or .

3 Display the pop-up window.



4 Enter the desired chapter/track number.



Examples:

To select 5, press 5.

To select 15, press 1, then 5.

To select 30, press 3, then 0.

- To correct a misentry, press the number buttons until the desired number is shown in the pop-up window.

5 Finish the setting.

ENTER/SET



The System starts playing the searched chapter or track.

Operations Using the Control

Screen



For DVD-VR, JPEG file and AV files: You can search for and play the desired items through the control screen.

Control screen for DVD-VR

The control screen is superimposed on the TV screen when you call up Original Program (PG) or Play List (PL) screens.

To select playback type

To select the Original Program:	To select the Play List:
<p>TOP MENU/PG</p>	<p>MENU/PL</p>

When Original Program screen is superimposed.

ORIGINAL PROGRAM				
No	Date	Ch	Time	Title
1	25/04/07	4ch	19:00	JVC DVD World 2004
2	17/05/07	8ch	10:30	
3	22/05/07	8ch	17:00	Music Festival
4	26/05/07	L-1	13:19	children 001
5	20/06/07	4ch	22:00	
6	25/06/07	L-1	8:23	children 002

When Play List screen is superimposed.

PLAY LIST				
No	Date	Chap	Length	Title
1	25/05/07	001	1:03:16	My JVC World
2	17/06/07	005	1:35:25	
3	20/06/07	003	0:10:23	Favorite music
4	25/06/07	001	0:07:19	children001-002

- ① Program/Play list number
- ② Recording date
- ③ Recording source (TV station, the input terminal of the recording equipment, etc.)
- ④ Start time of recording
- ⑤ Title of the program/play list*
- ⑥ Highlight bar (current selection)
- ⑦ Creating date of play lists
- ⑧ Number of chapters
- ⑨ Playback time

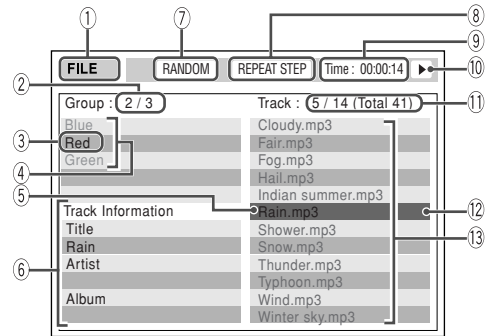
*The title of the original program or play list may not be displayed depending on the recording equipment.

To remove the control screen, press ENTER/SET.

Control screen for AV files/JPEG files

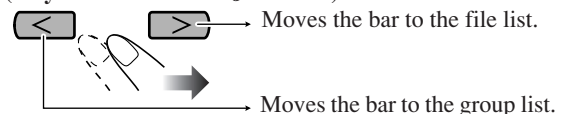
The control screen automatically appears on the TV screen when the System detects Audio files on the loaded disc or connected USB mass storage class device. (For Video files/JPEG files; it appears when playback is stopped.)

Ex.: While playing an MP3 file on a disc.



- ① Current source
FILE: Current source is "DVD/CD."
USB: Current source is "USB."
- ② Current group number/total group number
- ③ Current group
- ④ Group list
- ⑤ Current file
- ⑥ File information (only for MP3/WMA/WAV file)
- ⑦ Play mode information (RANDOM or PROGRAM, not applicable for USB mass storage class device.)
- ⑧ Repeat Play setting
- ⑨ Elapsed playing time of the current file
(Not applicable for JPEG file)
- ⑩ Operation Status icon
- ⑪ Current file number/total number of files in the current group (total number of files on the current disc/USB mass storage class device)
- ⑫ Highlight bar (Current selection)
- ⑬ File list
 - If different types of files (Audio files, Video files and Still picture files) are recorded on a disc/USB mass storage class device, select the file type to play (see page 37).

To move the highlight bar between group list and file list (only for AV files and JPEG file):




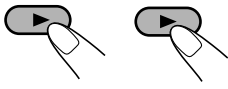

To select an item in the list:



Move the highlight bar to the desired item.

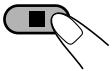
- If you move the highlight bar while playing back DVD-VR or Audio files, the selected item starts playback automatically.

To start playback

For JPEG files:	
ENTER/SET 	The selected file (still picture) is displayed until you change it.
DVD/CD USB MEMORY 	Slide-show playback starts. Each file (still picture) is shown on the screen for a few seconds, then changes one after another.
For the other files:	
ENTER/SET 	Playback starts with the selected chapter/file. <ul style="list-style-type: none"> Pressing DVD/CD ► or USB MEMORY ► also starts playback.

- Once you start viewing a JPEG file or Video file, the control screen disappears.
- To cancel slide-show for JPEG file, and display the current still picture, press **II**.

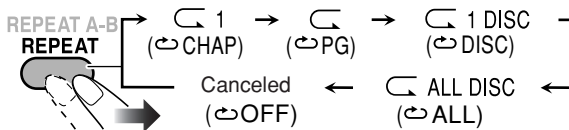
To stop playback



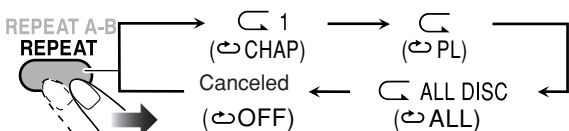
To repeat chapter/program/play list for DVD-VR

While playing or before starting playback...

For Original Program



For Play List



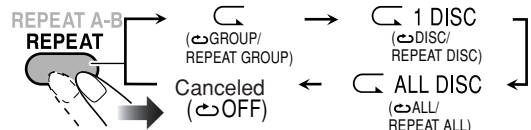
1*	Repeats the current chapter.
*	Repeats the current program/play list.
1 DISC*	Repeats all programs on the current disc.
ALL DISC	Repeats all loaded discs.

* Not available before starting playback.

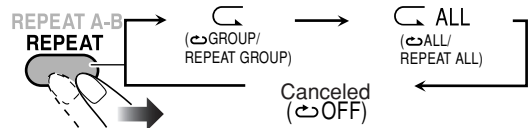
To repeat slide-show for JPEG files

While playing or before starting playback...

- When repeating JPEG file on disc:



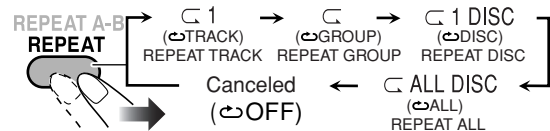
- When repeating JPEG files in a USB mass storage class device:



To repeat play for Video files

While playing or before starting playback...

- When repeating Video files on disc:



- When repeating Video files in a USB mass storage class device:



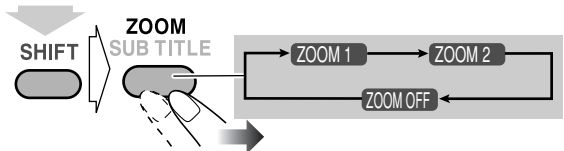
1	Repeats the current file.
1	Repeats the current group.
1 DISC	Repeats all files on the current disc.
ALL	Repeats all files in the USB mass storage class device.
ALL DISC	Repeats all loaded discs.

- For Repeat Play of Audio file, see page 22.

To zoom in the JPEG/ASF file

While playing...

- During slide-show for JPEG file, press **II** to display the still picture, then...



(while holding...)

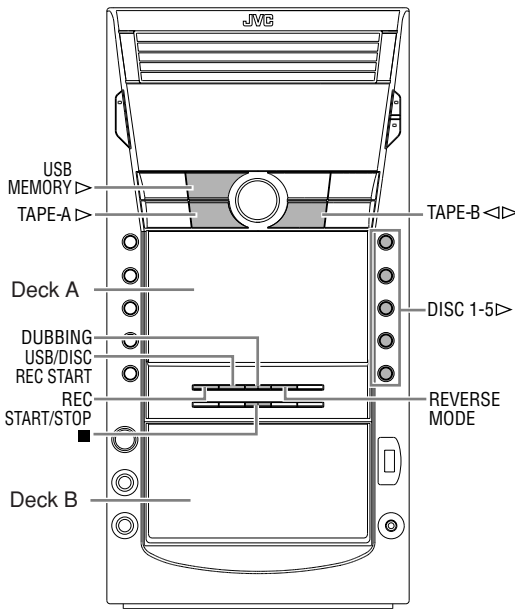
As the number increases, magnification also increases.

- You can move the zoomed-in area by pressing **<**, **>**, **^**, **v**.

To cancel Zoom, press ZOOM repeatedly until "ZOOM OFF" appears on the TV screen.

Recording Operations

Main unit



IMPORTANT

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

Recording onto a Tape

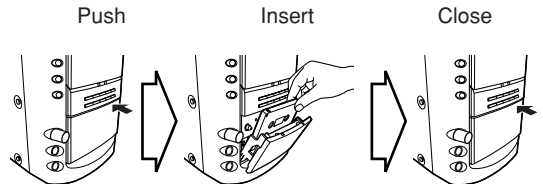


INFO

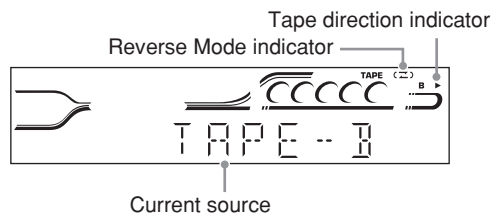
You can use type I tapes for recording.

- To play a tape, see page 12.

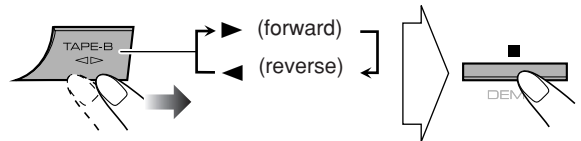
1 Insert a recordable cassette into deck B.



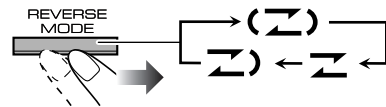
2 Check the tape running direction and Reverse Mode settings on the display.



To change the direction



Change the Reverse Mode if necessary



Z)	To record on both sides.
(Z)	• When using Reverse Mode, start recording in the forward (▶) direction.
Z	To record on only one side.

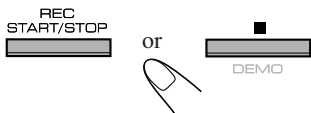
3 Start playing the source—"TUNER FM," "TUNER AM," "DVD/CD," "USB," "TAPE-A" or "AUX."

- When recording from a disc/USB mass storage class device, you can also use "Synchronized Recording" (see page 30).
- When recording from deck A, you can also use "Dubbing" (see "Dubbing Tapes" on page 30).

4 Start recording.



To stop recording

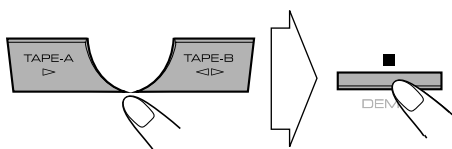


Dubbing Tapes



You can record a tape from deck A to deck B.

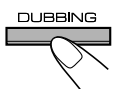
1 Change the source to “TAPE.”



2 Insert the source cassette in deck A, and a recordable cassette in deck B.

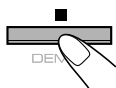
3 Check the tape running direction on the display. See step 2 of “Recording onto a Tape” on page 29.

4 Start dubbing.



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

To stop dubbing



Synchronized Recording



INFO

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

- This function is available only for CD/VCD/SVCD/DVD Audio/DVD Video and Audio files.
- Not available with Random Play.

1 Load a disc or connect a USB mass storage class device and insert a recordable cassette.

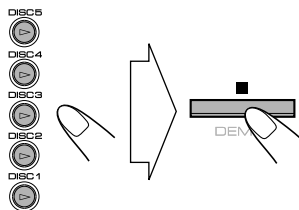
2 Check the tape running direction and Reverse Mode settings on the display.

- See step 2 of “Recording onto a Tape” on page 29.

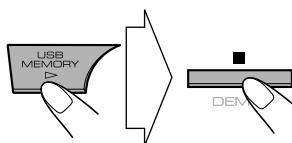
3 Select the source you want to record.

When recording from the disc:

- Select the disc number you want to start recording from.



When recording from the USB mass storage class device:



For recording desired tracks/files from discs:

You can program tracks/files to record in your preferred order.

Select Program Play (and make a program; see page 20) before starting playback.

4 Start recording.



Playback and recording start from the first track/file.

- The System automatically creates 4-second blank between the tunes recorded on the tapes.
- When either playback or recording ends, both playback and recording stop at the same time.

To record only your favorite track/file —One Track Recording

You can specify track/file to record on the tape while listening to a disc/USB mass storage class device.

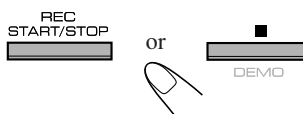
- This function is available only for CD/VCD/SVCD/DVD Audio and Audio files (without PBC for SVCD/VCD).
- Not available with Program Play and Random Play.

While the track/file you want to record is playing...



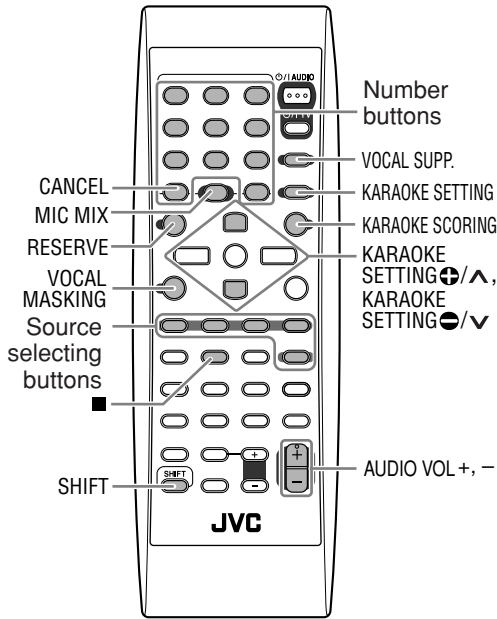
Playback returns to the beginning of that track/file and the track/file is recorded on the tape. After recording, both playback and recording stop.

To cancel while recording



Enjoying Karaoke

Remote control



IMPORTANT

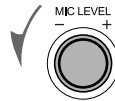
- Always set MIC LEVEL to “0” when connecting or disconnecting the microphone.
- MIC LEVEL adjustment is valid for both microphones connected to the MIC 1 and MIC 2 jacks.
- MIC LEVEL and MICVOL mentioned in this Instruction Book carry the same meaning.

Singing Along (Karaoke)

You can enjoy singing along (Karaoke) by using one or two microphones.

- By pressing REC START/STOP, you can record your singing-along.

1 Turn MIC LEVEL to “0”.



2 Connect the microphone(s) (not supplied) to the MIC 1 and/or MIC 2 jack.

Mic Mixing will be automatically activated.

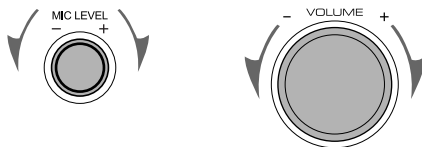


3 Start playing a source—“TUNER FM,” “TUNER AM,” “DVD/CD,” “USB,” “TAPE-A,” “TAPE-B” or “AUX.”

- For Karaoke discs: Select a desired audio channel. See “Selecting the Audio Track” on page 17.

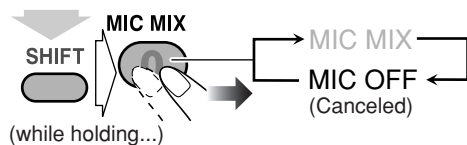
4 Sing into the microphone.

5 Adjust the MIC LEVEL and VOLUME.

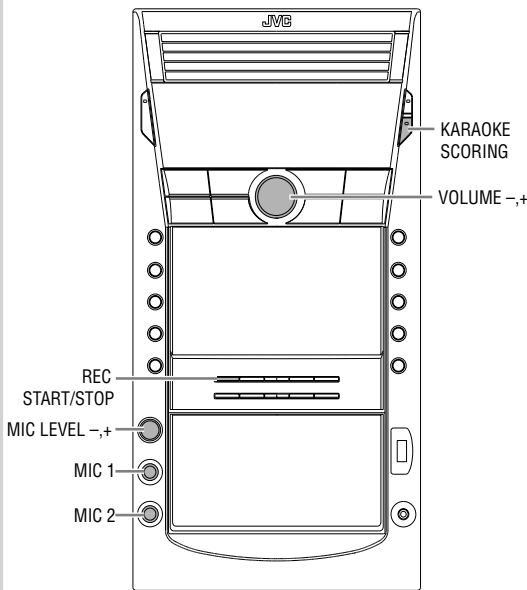


To use microphone only, select “DVD/CD” or “USB” in step 3, but do not start playback.

To cancel the Mic Mixing



Main unit



DO NOT keep the microphones connected while they are not in use.

Adjusting the Sound Track for Karaoke



You can adjust the sound track for Karaoke.

For stereo (2-channel) source: By selecting VOCAL MASK, you can reduce the lead vocal—Vocal Masking.

For Karaoke disc: By selecting L CHANNEL or R CHANNEL, you can select the audio channel to play. While Mic Mixing is activated...



VOCAL MASK	Reduce the vocal from stereo (2-channel) source.
L CHANNEL	Reproduces only the left audio channel.
R CHANNEL	Reproduces only the right audio channel.

To return to normal playback, select “OFF.”

To return to normal playback temporarily

This function allows you to recover the lead vocal temporarily for your reference.

While Vocal Masking, L CHANNEL or R CHANNEL is activated...



The vocal or stereo effect will be restored temporarily.

To return to Vocal Masking, L CHANNEL or R CHANNEL, press the same button again.

Scoring Your Karaoke Skill



This System can score your Karaoke skill by comparing your singing along with the vocal on the playback source.

- This function is available only for disc/USB mass storage class device playback.
- This function is not available for DVD Audio.
- It is recommended to select the soundtrack as follows (see page 17):

For Karaoke DVD Video: Select a sound track with vocal.

For Karaoke SVCD/VCD: Select “ST,” “ST1” or “ST2.”

- After selecting a sound track, select VOCAL MASK, L CHANNEL or R CHANNEL using the VOCAL MASKING button (see above).

1 Select “DVD/CD” or “USB” as the source.



2 Connect the microphone(s) (not supplied) to the MIC 1 and/or MIC 2 jack.

Mic Mixing will be activated.

- If a microphone is already connected and Mic Mixing is not activated, use the MIC MIX button to reactivate Mic Mixing (see page 31).

3 Activate Karaoke Scoring.

“KSCORE ON” appears on the display.



- During Karaoke Scoring, scoring will start when playback is started.
- To cancel Karaoke Scoring before playback, press the same button again. “KSCORE OFF” appears on the display.

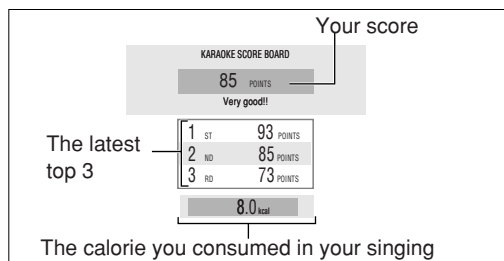
4 Start playback and sing into the microphone.

Karaoke Scoring starts.

- Adjust echo level and key if you want. (See “To apply an echo to your voice” and “To adjust the key” on page 33.)
- When you press ◀◀ or ▶▶, Karaoke Scoring is canceled and restarts from the selected track/file.

After the song ends, playback stops and the score board appears on the TV screen with fanfare.

Ex.:



- When you press ■, Karaoke Scoring is canceled. When playback starts again, Karaoke Scoring restarts.
- If you do not sing for about 2 minutes after Karaoke Scoring starts, Karaoke Scoring is canceled. If you sing a song too quietly for the System to detect your voice for about 2 minutes after Karaoke Scoring starts, Karaoke Scoring may be canceled.
- To obtain a correct scoring result, it is recommended to sing the song completely. If the singing time is less than 3 minutes, the scoring result may be “0” or incorrect.

To stop the playback in the middle of the song, press ■. Karaoke Scoring is not canceled and your singing along is scored until that time.

To activate Karaoke Scoring in the middle of the song, press KARAOKE SCORING. “SCORING” and “START” appear on the display, then scoring starts from that point.

To deactivate Karaoke Scoring in the same song during playback, press KARAOKE SCORING. “SCORING” and “CANCEL” appear on the display.

- Once you deactivate Karaoke Scoring in the same song during playback, pressing KARAOKE SCORING switches “KSCORE ON” and “KSCORE OFF” alternately.
- When you reactivate Karaoke Scoring in the same song during playback and “KSCORE ON” is selected, scoring starts from the next track.

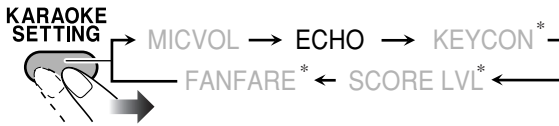
Changing the Karaoke Setting

You can change five settings for Karaoke.

- To escape from Karaoke setting, wait for several seconds after the setting is done.

To apply an echo to your voice

1



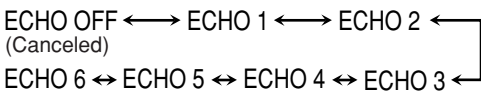
* Appears only when “DVD/CD” or “USB” is selected as the source with Mic Mixing activated.

2 Adjust the echo level.

KARAOKE SETTING ⬇



KARAOKE SETTING ⬇



- As the number increases, echo level also increases.

To adjust the key

- This function is available for disc/USB mass storage class device playback.
- This function is available only for CD/VCD/SVCD/DVD Video and Audio files.
- Key adjustment will be canceled when you deactivate Mic Mixing, or select another disc, track or file.

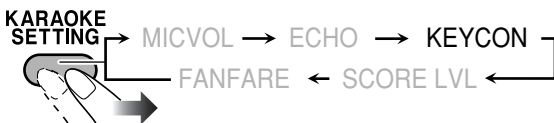
1 Select “DVD/CD” or “USB” as the source.

2 Connect the microphone(s) (not supplied) to the MIC 1 and/or MIC 2 jack.

Mic Mixing will be automatically activated.

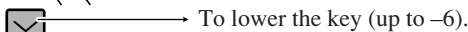
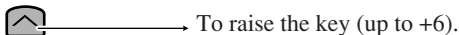
- If a microphone is already connected and Mic Mixing is not activated, use the MIC MIX button to reactivate Mic Mixing (see page 31).

3 Start playback, then...



4 Adjust the key.

KARAOKE SETTING ⬆



KARAOKE SETTING ⬇

To return to normal key, select “0.”

To change the calculation level

You can change the scoring level of Karaoke Scoring.

- This function is available only for disc/USB mass storage class device playback.

1 Select “DVD/CD” or “USB” as the source.

2 Connect the microphone(s) (not supplied) to the MIC 1 and/or MIC 2 jack.

Mic Mixing will be automatically activated.

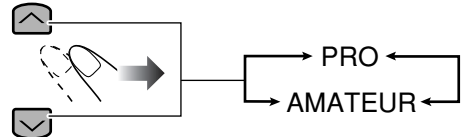
- If a microphone is already connected and Mic Mixing is not activated, use the MIC MIX button to reactivate Mic Mixing (see page 31).

3



4 Select the scoring level setting.

KARAOKE SETTING ⬆



KARAOKE SETTING ⬇

PRO Calculation level is strict.

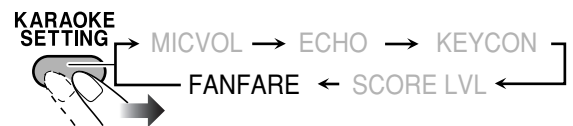
AMATEUR Calculation level is lenient.

To turn on/off the fanfare

You can turn the fanfare on or off for Karaoke Scoring.

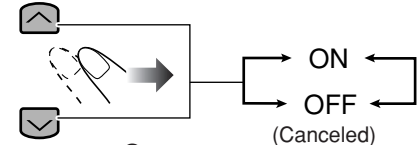
- This function is available only for disc/USB mass storage class device playback.

1



2 Select the fanfare setting.

KARAOKE SETTING ⬆

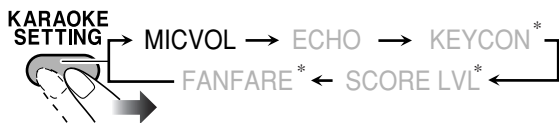


KARAOKE SETTING ⬇

To change the mic volume



1



* Appears only when “DVD/CD” or “USB” is selected as the source with Mic Mixing activated.

2 Select the volume level.

KARAOKE SETTING +



KARAOKE SETTING -



• The mic volume level can be adjusted in 16 steps (MICVOL 0 – 15).

Reserving Karaoke Songs

—Karaoke Program Play



You can determine the playback order of the titles, chapters, tracks or files on the disc player. You can program up to 12 steps.

• This function is not available for files in a USB mass storage class device.

1 Select “DVD/CD” as the source.

2 Turn the MIC LEVEL to “0”.

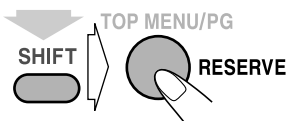


3 Connect the microphone(s) (not supplied) to the MIC1 or MIC2 jack.

Mic Mixing will be automatically activated.

• If a microphone is already connected and Mic Mixing is not activated, use the MIC MIX button to reactivate Mic Mixing (see page 31).

4 Activate Karaoke Program Play.



(while holding...)

No	Disc	Gr/Tt	Tr/Chap
1			
2			
3			
4			
5			

On the TV screen

• The PROGRAM indicator flashes during this mode.

5 Select songs you want for Karaoke Program Play.

Press the number buttons to select a song in the following order.

- ① Select a disc.
- ② Select a title/group.
- ③ Select a chapter/track/file.



• To select a number, see “How to select a number” on page 8.

• To cancel the procedure, press RESERVE while holding SHIFT. The PROGRAM indicator disappears.

6 Start playback.

DVD/CD



Karaoke Reserve screen disappears and playback starts in the order you have programmed.

• For the Karaoke Program Play with Karaoke

Scoring: Each time the song ends, playback stops and the score board appears. Press DVD/CD ► to start playback of the next track.

7 Sing into the microphone.

8 Adjust the MIC LEVEL and VOLUME.

To check the programmed contents



(while holding...)

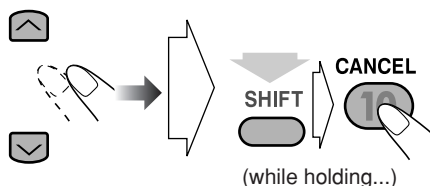
Karaoke Reserve screen appears.

• You cannot display Karaoke Reserve screen while Karaoke Scoring is in use.

To modify the program

While Karaoke Reserve screen is shown on the TV...

To erase the unwanted step:



(while holding...)

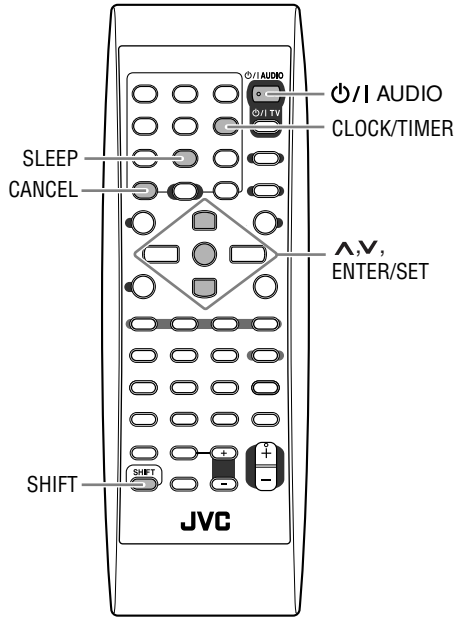
To erase the entire program, repeat the procedure.

To add steps in the program:

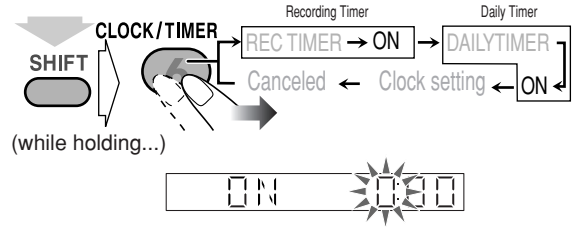
Repeat step 5.

Timer Operations

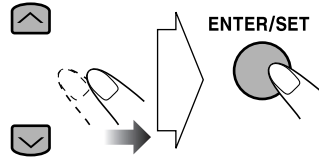
Remote control



1 Select one of the timer setting modes—ON for Recording Timer or Daily Timer.



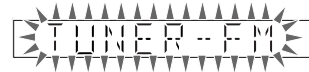
2 Make the timer setting as you want.



Repeat the procedure for the following setting until finished.

- ① Set the hour then minute for on-time.
- ② Set the hour then minute for off-time.
- ③ For Recording Timer: Select the playback source—"TUNER-FM," "TUNER-AM" or "AUX."

For Daily Timer: Select the playback source—"TUNER-FM," "TUNER-AM," "DISC," "USB," "TAPE-A," "TAPE-B" or "AUX."



EX.: When "TUNER-FM" is selected.

- When you select "AUX" as the source, you also need to set the timer of the external component.
- ④ Select an item you want to play or record as follows.
 - "TUNER-FM" and "TUNER-AM": Preset station.
 - "DISC": Disc, group/title and track/file/chapter.
 - "USB": Group and file.
- ⑤ Select the volume level.
 - You can select the volume level ("VOLUME 0" – "VOLUME 30" and "VOLUME --"). If you select "VOLUME --," the volume is set to the last level when the System has been turned off.

After making the timer setting, "SET OK" appears and your setting items appear on the display one after another.

Setting the Timer



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

- You cannot activate Daily Timer and Recording Timer at the same time. (Activating either timer deactivates the other timer.)
- To correct a misentry during the process, press CANCEL while holding SHIFT. You can return to the previous step.

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

⏻/I AUDIO



How Recording Timer works

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

- Recording Timer starts working only when the System is turned off (on standby).

When the on-time comes

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

When the off-time comes

- The System stops recording, and turns off (on standby).
- The timer setting remains in memory until you change it.

How Daily Timer works

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

- Daily Timer starts working only when the System is turned off (on standby).

When the on-time comes

The System turns on, tunes in to the specified station or starts playing the specified source, and sets the volume level gradually to the preset level after about 30 seconds.

When the off-time comes

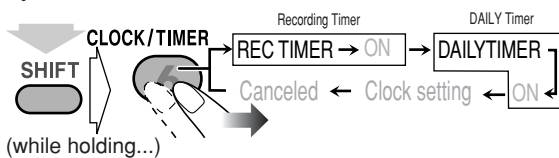
- The System stops playback, and turns off (standby).
- The timer setting remains in memory until you change it.

To turn off the Timer after the setting is done

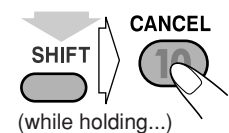
You can turn off the timer after it has been set.

- Since Daily Timer works at the same time everyday, you may need to cancel it on some particular days.

1 Select the timer (REC TIMER or DAILYTIMER) you want to cancel.



2 Turn off the selected timer.



- The timer indicator (⏻) goes off.

To turn on the timer again, repeat step 1 and press ENTER/SET in step 2.

Turning Off the Power Automatically



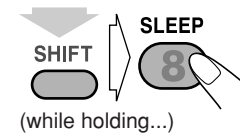
With Sleep Timer, you can fall asleep while listening to music.

1 Specify the time (in minutes).



2 Wait until the set time disappears.

To check the time remaining until the shut-off time

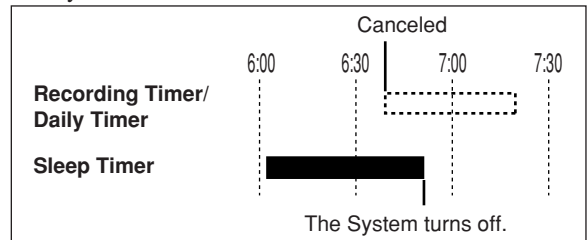


- If you press the button repeatedly, you can change the shut-off time.

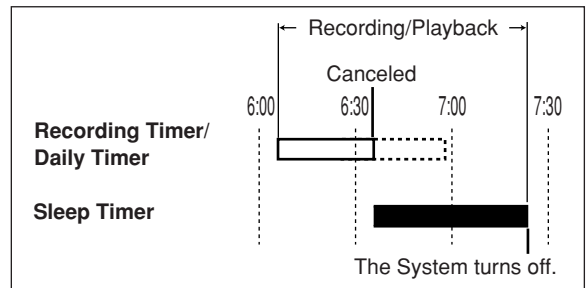
Timer Priority

If Timer settings overlap, the timers work as described below.

- Sleep Timer has priority over the Recording Timer and Daily Timer.



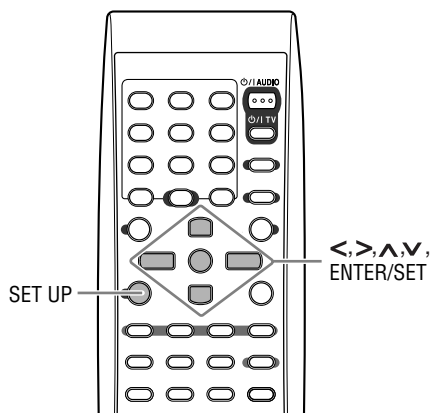
- In this case, Recording Timer/Daily Timer does not work.



- In this case, Recording Timer/Daily Timer is canceled. (If Sleep Timer shuts off the System earlier than the off time you have set for Recording Timer, recording stops when Sleep Timer shuts off the System.)

Setup Menu Operations

Remote Control

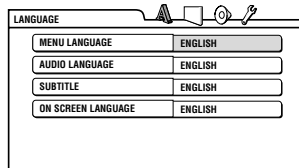


Basic Procedure

You can change the setting of the System.

- The setup menu can be used only when “DVD/CD” or “USB” is selected as the source.

1 Press SET UP while playback is stopped.



2 Press > (or <) to select the menu.

3 Press v (or ^) to select the item.

4 Press ENTER/SET.

5 Press v (or ^) to select the options, then press ENTER/SET.

To erase a preference display, press SET UP.

LANGUAGE menu

Item	Contents
MENU LANGUAGE	You can select the initial menu language of DVD Video (see page 46).
AUDIO LANGUAGE	You can select the initial audio language of DVD Video (see page 46).
SUBTITLE	You can select the initial subtitle language of DVD Video (see page 46).
ON SCREEN LANGUAGE	You can select “ENGLISH,” “CHINESE,” or “SPANISH” as the on-screen language.

PICTURE menu

Item	Contents
MONITOR TYPE <p>The diagram shows three monitor types: 16:9 (wide screen), 4:3 LB (Letter Box conversion), and 4:3 PS (Pan Scan conversion). Each type is illustrated with a picture of a person on a boat.</p>	<p>You can select the monitor type to match your TV when you play back picture recorded for wide-screen televisions.</p> <p>16:9 NORMAL/16:9 MULTI NORMAL (Wide television screen): Select this when the aspect ratio of your wide TV is fixed to 16:9.</p> <p>16:9 AUTO/16:9 MULTI AUTO (Wide television screen): Select this when your TV is an ordinary wide TV.</p> <p>4:3 LB/4:3 MULTI LB (Letter Box conversion): For a conventional (4:3) TV. Displays a wide-screen picture to fit the width of the TV screen keeping the aspect ratio.</p> <p>4:3 PS/4:3 MULTI PS (Pan Scan conversion): For a conventional (4:3) TV. The picture is zoomed in to fill the screen vertically and the left and right sides of the picture are cut off.</p> <ul style="list-style-type: none"> By selecting “MULTI” mode, the color system of the System changes automatically to match the color system of the picture. For the color system setting, see page 6.
PICTURE SOURCE	<p>You can obtain optimal picture quality by selecting the type of the video source.</p> <p>AUTO: Normally, select this option. The System recognizes the picture type (film or video source) of the current picture according to its information.</p> <p>FILM: For a film source picture.</p> <p>VIDEO: For a video source picture.</p>
SCREEN SAVER	<p>You can set the screen saver function to ON or OFF.</p> <p>ON: The on-screen display becomes dark when no operation is done for about 5 minutes.</p> <p>OFF: To cancel the screen saver.</p>
FILE TYPE	<p>You can select a file type to play.</p> <p>AUDIO: To play Audio files. (MP3/WMA/WAV files.)</p> <p>STILL PICTURE: To play Still Picture files. (JPEG file.)</p> <p>VIDEO: To play Video files. (MPEG-1/MPEG-2/ASF/DivX files.)</p>



AUDIO menu

Item	Contents
DIGITAL AUDIO OUTPUT	Set this item correctly when using the OPTICAL DIGITAL OUTPUT terminal on the rear. PCM ONLY: When connecting to audio equipment which is compatible with only linear PCM signals. DOLBY DIGITAL/PCM: When connecting to a Dolby Digital decoder or an amplifier with built-in Dolby Digital decoder. STREAM/PCM: When connecting to a DTS/MPEG Audio decoder or an amplifier with built-in DTS/MPEG Audio decoder.
DOWN MIX	This setting is effective for digital audio output if “DIGITAL AUDIO OUTPUT” is set to “PCM ONLY.” DOLBY SURROUND: Select this when connecting a surround decoder. STEREO: Select this when connecting a stereo receiver, MD player, TV, etc.
D. RANGE COMPRESSION	You can enjoy a powerful sound at a low volume level while playing Dolby Digital software. AUTO: Select to apply the compression only to multi-channel encoded audio (except for 1-channel and 2-channel sources.) ON: Select this to always apply the compression.

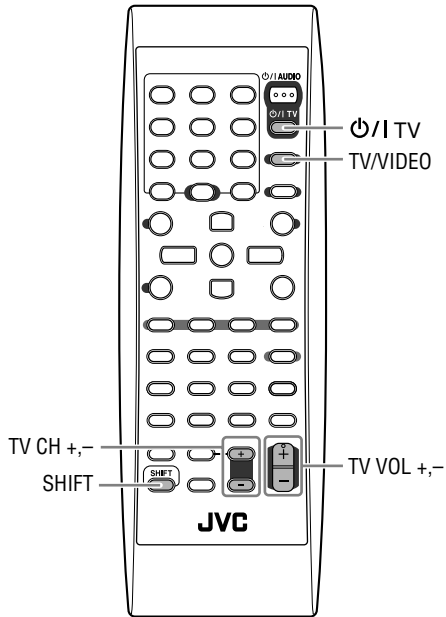


OTHERS menu

Item	Contents
RESUME	You can select Resume. ON: The System resumes playback from the position where playback has been stopped (not applicable for CD). OFF: Resume is deactivated.
ON SCREEN GUIDE	Activate or deactivate the on-screen guide. ON: Activate the on-screen guide. OFF: Deactivate the on-screen guide.
DivX REGISTRATION	The System has its own Registration Code. If necessary, you can confirm it. Once you have played back a DivX file in which the Registration Code is recorded, the System’s Registration Code is overwritten for copyright protection.

Operating the TV

Remote control



You can operate JVC's TV using the remote control supplied for this System.

To turn on or off the TV:	To select the input mode (either TV or VIDEO):
<p>Power/TV</p>	<p>SHIFT (while holding...)</p> <p>TV/VIDEO VOCAL SUPP.</p>
To adjust TV volume:	
<p>SHIFT (while holding...)</p> <p>TV VOL</p>	
To select the TV channel:	
<p>SHIFT (while holding...)</p> <p>TV CH</p>	

Additional Information

Learning More about This System ● ● ●

Connections (see pages 3 to 6)

Changing the Color System and Scanning Mode:

- If you play back an NTSC disc/file with the color system set to “PAL (PROG*),” the disc/file will be reproduced using “PAL 60” format; however, if the TV does not support this format, the screen may not display properly.
- If you play back a PAL disc/file with the color system set to “NTSC (PROG*),” you can watch the playback pictures, but the following symptoms may occur:
 - The items on the menu will be blurred, and be shown slightly shifted when highlighted.
 - The aspect ratio of the picture may differ from the original aspect ratio.
 - The picture movement is not smooth.

* PAL PROG and NTSC PROG are available only for CA-DXJ30.

CA-DXJ30 only

- You cannot change the scanning mode to progressive in the following cases:
 - When your TV does not support the progressive video input.
 - When you have not connected your TV to the unit using a component video cord.
- When you play back an NTSC disc/file in progressive scanning mode (either NTSC PROG/PAL PROG), the System outputs the NTSC signal regardless of the color system settings.

Daily Operations—Playback (see pages 8 to 12)

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 may be erased in a few days. If this happens, preset the stations again.

Playing Back a Disc/USB Mass Storage Class Device:

- When you change the source to “DVD/CD” or “USB,” it may take a while to activate the source.
- While the System is reading a disc, the source may not change to “USB” correctly. In this case, press ■, then reactivate “USB” as the source.
- On some discs/files, the actual operations may be different from what is explained in this manual, due to the programming and disc structure; such differences are not a malfunction of this System.
- For playback of files in the USB mass storage class device...
 - When connecting a USB mass storage class device, refer also to its manual.
 - Connect one USB mass storage class device to the System at a time. Do not use a USB hub.
 - You cannot charge any other USB device through the ⚡ (USB MEMORY) terminal of this System.

- While playing back a file in a USB mass storage class device, do not disconnect the device. It may cause a malfunction of both the System and the device.
- JVC bears no responsibility for any loss of data in the USB mass storage class device while using this System.
- When connecting with a USB cable, use the cable whose length is less than 1 m.
- This System is compatible with USB 2.0 Full Speed.
- You can play back the following types of files in a USB mass storage class device (maximum data transfer rate: 2 Mbps):
 - Audio: MP3, WMA, WAV
 - Still picture: JPEG
 - Video: MPEG-1, MPEG-2, ASF, DivX (maximum frame rate of 30 fps for progressive)
 - This System may not play back some files even though their formats are listed above.
- You cannot play back a file larger than 2 Gigabyte.
- When playing a file which has a high transfer rate, frames or sounds may be dropped during playback.
- This System cannot recognize a USB mass storage class device whose rating is other than 5 V and does not exceed 500 mA.
- This System may not play back some USB mass storage class devices and does not support DRM (Digital Rights Management).
- It will take some time to start up a Digital Audio Player (DAP) larger than 1 Gigabyte.
- You cannot send any data to your USB mass storage class device from this System.
- For MP3/WMA/WAV playback...
 - MP3/WMA/WAV discs require a longer readout time than regular CDs. (It depends on the complexity of the group/file configuration.)
 - Some MP3/WMA/WAV files cannot be played back and will be skipped. This results from their recording processes and conditions.
 - When making MP3/WMA/WAV discs, use ISO 9660 Level 1 or Level 2 for the disc format.
 - This System can play back MP3/WMA/WAV files with the extension code <.mp3>, <.wma> or <.wav> (regardless of the letter case—upper/lower).
 - It is recommended that you make each MP3/WMA/WAV files at the following conditions:
 - MP3/WMA: At a sampling rate of 44.1 kHz and bit rate of 128 kbps.
 - WAV: 44.1 kHz/16 bit Linear PCM.
 - This System cannot play back files made at bit rate of less than 64 kbps.
- For DVD-VR playback...
 - **Original Program:** The System can play back the original picture in the recorded order.
 - **Play List:** The System can play back the play list edited by the recording equipment.
 - For details about DVD-VR format and play list, refer to the manual of the recording equipment.

- For JPEG playback...
 - This System can play back JPEG files with the extension code <.jpg> or <.jpeg> (regardless of the letter case—upper/lower).
 - 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.
- For MPEG-1/MPEG-2 playback...
 - This System can play back MPEG-1/MPEG-2 files with the extension code <.mpg> or <.mpeg> (regardless of the letter case—upper/lower).
 - The stream format should conform to MPEG system/program stream.
 - 720 x 576 pixels (25 fps)/720 x 480 pixels (30 fps) is recommended for the highest resolution.
 - This System also supports the resolutions of 352 x 576/480 x 576/352 x 288 pixels (25 fps) and 352 x 480/480 x 480/352 x 240 pixels (30 fps).
 - The file format should be MP@ML (Main Profile at Main Level)/SP@ML (Simple profile at Main Level)/MP@LL (Main Profile at Low Level).
 - Audio streams should conform to MPEG1 Audio Layer-2 or MPEG2 Audio Layer-2.
- For ASF playback...
 - This System can play back ASF files with the extension code <.asf> (regardless of the letter case—upper/lower).
 - This System supports ASF files whose resolution is 352 x 288 pixels or less.
 - Some recorded files may not be able to played back depending on file characteristics, kind of digital still/video cameras, or recording conditions.
- For DivX playback...
 - The System supports DivX 6.x, 5.x, 4.x and 3.11.
 - When making a disc, use the UDF-Bridge format. “Multi-border” is not supported.
 - The System supports DivX files whose resolution is 720 x 480 pixels or less (30 fps), and 720 x 576 pixels or less (25 fps).
 - Audio stream should conform to Dolby Digital, MPEG1 Audio Layer- 2 or MPEG Audio Layer-3 (MP3).
 - This System can play back DivX files with the extension code <.divx> <.div> <.avi> (regardless of the letter case—upper/lower).
 - The System does not support GMC (Global Motion Compression).
 - The file encoded in the interlaced scanning mode may not be played back correctly.

Daily Operations—Sound & Other Adjustments (see pages 13 to 16)

Reinforcing the Bass Sound:

- You cannot adjust the Active Bass level when the headphones are connected.

Applying an Optimal Bass Sound Effect—VARIO BASS:

- If you plug in a microphone and Mic Mixing is activated, the System will automatically switches the mode to LITE.n.EASY even if the mode is set to OFF.

Creating Your Own Sound Modes—User Mode:

- When you unplug the AC power cord or if a power failure occurs, the User Mode settings may be erased in a few days. If this happens, set the User Modes again.

Creating 3-dimensional Sound Field—3D Phonic:

- While you use the headphones, 3D Phonic is canceled temporarily.
 - 3D Phonic is also applied to the optical digital output signals through the OPTICAL DIGITAL OUTPUT terminal.

Setting the Clock:

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

Unique Video Disc/File Operations (see pages 17 to 19)

Selecting the Audio Track:

- On some disc/file, you cannot change audio languages while playing back.

Special Picture Playback:

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

Advanced Playback Operations (see pages 20 to 22)

Programming the Playing Order—Program Play:

- While programming steps...
 - Your entry will be ignored if you have tried to program an item number that does not exist on the disc (for example, selecting track 14 on a disc that only has 12 tracks).
 - For SVCD/VCD/CD loaded on the other tray than the current one, the System may prompt for the group number entry as well; however, these entries will be ignored during playback.
- The programmed contents will remain until you erase it.
- While the PROGRAM indicator is on, you cannot change the disc to play. (DISC 1 – 5 on the remote control and DISC 1 – 5 ▷ on the main unit do not work.)

On-Screen Operations (see pages 23 to 28)

Operations Using the On-screen Bar:

- A-B Repeat is possible only within the same title or within the same track.

Recording Operations (see pages 29 to 30)

General:

- You cannot change the source during recording.
- There is leader tape which cannot be recorded onto at the start and the end of cassette tapes. Thus, before recording, wind the leader tape first to ensure that the recording will be made without any music part lost.
- If no cassette is inserted or a protected tape has been inserted, "NO REC" appears on the display.
- The recording level is automatically set correctly. Thus, you can make sound adjustments, without affecting the recording level.

Recording onto a Tape:

- When using Reverse Mode for recording, start recording in the forward (▶) direction first; otherwise, recording will stop when only one side (reverse) of the tape is recorded.
- While recording onto a tape using USB/DISC REC START button, plugging in or out headphones may cause sound distortion and affect the recording.

Synchronized Recording:

- You cannot open the disc tray while recording onto a tape using USB/DISC REC START button.
- Recording starts from the first track even if you have selected a track by using ◀◀/▶▶. To specify track(s) to record, program them (not applicable for USB mass storage class device) or use One Track Recording.
- While recording, you cannot use disc/USB mass storage class device operation buttons (except for ■).
- You cannot use Repeat Play during synchronized recording (Repeat Play will be canceled).
- USB/DISC REC START button does not work:
 - While playback is paused.
 - When Random Play mode is selected.
 - When playing back in Program Play mode.
- When the tape reaches its end in the forward direction (▶) during recording, the last song will be re-recorded at the beginning of the reverse side (◀).
- When the tape reaches its end in the reverse side (◀) during recording, recording stops even though the disc/USB mass storage class device is not entirely recorded.

Enjoying Karaoke (see pages 31 to 34)

General:

- While recording onto a tape, Key adjustment, Echo and Vocal Masking will be recorded. However, while recording onto a tape using USB/DISC REC START, Key adjustment will not be recorded.
- While the System is turned on, connecting a microphone automatically activates Mic Mixing and all the Karaoke related functions.

- While the System is turned off, connecting a microphone does not activate Mic Mixing and any other Karaoke related function. In this case, press MIC MIX while holding SHIFT after turning the System on.

Adjusting the Sound Track for Karaoke:

- The Vocal Masking setting is not applied to the optical digital output signals through the OPTICAL DIGITAL OUTPUT terminal.
- On some music, Vocal Masking does not provide the correct effect.

Scoring Your Karaoke Skill:

- You can also activate Karaoke Scoring while playing back. In this case, the scoring starts from that point. But cancel Karaoke Scoring and set Karaoke Scoring again in the same track during the playback, scoring starts from next track.
- While Karaoke Scoring is in use, you cannot deactivate Mic Mixing or use MIC MIX, RESERVE and number buttons.
- Activating Karaoke Scoring cancels Repeat Play.
- You cannot use Karaoke Scoring during Program Play, Random Play, or recording. However, you can turn Karaoke Scoring on and off by using KARAOKE SCORING button during these play modes.
- The ranking (top 3) is cleared when you turn off the System.

Reserving Karaoke Songs—Karaoke Program Play:

- You can use RESERVE button when a microphone is plugged in. However, you can cancel Karaoke Program Play using the button even if a microphone is not plugged in. In case you reactivate Karaoke Program Play, plug in a microphone.
- If you have selected a disc tray on which a disc containing Video files or JPEG file or DVD-VR is loaded, that disc number is skipped.
- If DVD-VR or a disc containing Video files and JPEG file is loaded on the current tray, you cannot activate Karaoke Program Play.
- When the track starts playback, that track number will be erased from the Karaoke Reserve screen (the programmed contents will remain until you erase it).
- While the PROGRAM indicator is flashing, you cannot change the disc to play. (DISC 1 – 5 on the remote control and DISC 1 – 5 ▷ on the main unit do not work.)
- For some VCD, the Karaoke Scoring result may not appear at the end of the track if PBC is activated. In this case, press ■ to view your scoring result.

Timer Operations (see pages 35 to 36)

Setting the Timer:

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

Setup Menu Operations (see pages 37 to 38)

General:

- If the upper and lower parts of the menu are cut off, adjust the picture size control of the TV.

LANGUAGE 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 menu—MONITOR TYPE:

- Even if “4:3 PS/4:3 MULTI PS” is selected, the screen size may become 4:3 letter box with some disc. This depends on how they are recorded.
- When you select “16:9 NORMAL/16:9 MULTI NORMAL” or “16:9 AUTO/16:9 MULTI AUTO” for a picture whose aspect ratio is 4:3, the picture slightly changes due to the process for converting the picture width.

OTHERS menu—ON SCREEN GUIDE:

- The setup menu and on-screen bar will be displayed (and recorded) even though this function is set to “OFF.” Subtitles and the information for zoom-in always appear on the display regardless of this setting.

Maintenance

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

Handling discs

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

To clean the disc:

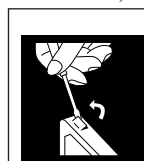
Wipe the disc with a soft cloth in a straight line from center to edge.

Handling cassette tapes

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

To keep the best recording and playback sound quality:

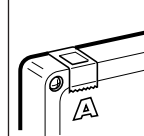
- Use a cotton swab moistened with alcohol to clean the heads, capstans and pinch rollers.
- Use a head demagnetizer (available at electronics and audio shops) to demagnetize the heads (when the System is turned off).



To protect your recording

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

To protect your recording, remove these tabs.



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

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 forcefully.
 - DO NOT wipe it with thinner or benzine.
 - DO NOT apply any volatile substance such as insecticides to it.
 - DO NOT allow any rubber or plastic to remain in contact for a long time.

Troubleshooting

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

General:

Adjustments or settings are suddenly canceled before you finish.

⇒ There is a time limit. Repeat procedure again.

Operations are disabled.

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

Unable to operate the System from the remote control.

⇒ The path between the remote control and the remote sensor on the System is blocked.

⇒ 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 video input.

⇒ Incorrect color system is selected (see page 6).

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

⇒ Select “4:3 LB /4:3 MULTI LB” for “MONITOR TYPE” (see page 37).

Radio Operations:

Hard to hear 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/file Operations:

The disc does not play.

⇒ You have inserted a DVD Video whose Region Code is not correct. (“REGION ERR” appears on the display.)

⇒ The disc is placed upside down. Place the disc with the label side up.

ID3 Tag on an MP3 disc cannot be shown.

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

Groups and files are not played back as you expect.

⇒ The playing order is determined when the files were recorded. It depends on the application.

AV files are not played back.

⇒ The disc or USB mass storage class device includes different types of files (Audio file, Video file and Still picture file.). In this case, you can play back the files selected only by the “FILE TYPE” setting (see page 37).

⇒ You have changed the “FILE TYPE” setting after the System read the disc or the USB mass storage class device. In this case, reload the disc or disconnect the USB mass storage class device and connect it again.

The disc sound is discontinuous.

⇒ The disc is scratched or dirty.

The playback sounds strange.

⇒ Cancel Vocal Masking (see page 32).

⇒ Cancel Key adjustment (see page 33).

No subtitle appears on the TV screen though you have selected the initial subtitle language.

⇒ Some discs are programmed to always display no subtitle initially. If this happens, press SUB TITLE after starting play (see page 18).

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

⇒ Some discs/files are programmed to always use the original language initially. If this happens, press AUDIO/MPX after starting play (see page 17).

The disc tray does not open or close.

⇒ The AC power cord is not plugged in.

⇒ Child Lock is in use. “LOCKED” appears on the display window (see page 22).

⇒ Program Play is in use. Cancel Program Play (see page 21).

Tape Operations:

The cassette holder cannot be opened.

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

Recording Operations:

“CANNOT REC” appears on the display.

⇒ The System cannot perform recording.

Impossible to record.

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

⇒ Karaoke Scoring is in use. Cancel the Karaoke Scoring (see page 32).

Karaoke Operations:

Karaoke function cannot be activated.

⇒ Ensure at least 1 microphone is connected and Mic Mixing is activated. If a microphone is not connected, you cannot activate Mic Mixing and any other Karaoke related function.

Karaoke Scoring function cannot be activated.

⇒ You cannot use Karaoke Scoring while recording, or while the disc menu for DVD Video/SVCD/VCD is shown on the TV screen.

Scoring result seems wrong (or “- -” appears).

⇒ The time of the playback and singing along are too short for Karaoke Scoring. It is recommended to sing more than 3 minutes to obtain a correct scoring result.

⇒ No sound from the microphone or the input level (MIC LEVEL) is too low.

⇒ You have sung too quietly.

Timer Operations:

Daily Timer or Recording 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.

OPTICAL DIGITAL OUTPUT Signals

DIGITAL AUDIO OUTPUT Playback disc/file	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 (CA-DXJ30 only)			
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	
DVD-R/-RW in DVD-VR format			
with 48 kHz, 16/20/24 bit Linear PCM	48 kHz, 16 bit Linear PCM*		
with Dolby Digital	Dolby Digital 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/WAV/MPEG-1/MPEG-2 disc/file	32 kHz/44.1 kHz/48 kHz, 16 bit Linear PCM		
DivX disc/file			
with MP2, MP3	32 kHz/44.1 kHz/48 kHz, 16 bit Linear PCM		
with Dolby Digital	Dolby Digital bitstream		32 kHz/44.1 kHz/48 kHz, 16 bit Linear PCM
ASF disc/file	32 kHz, 16 bit Linear PCM		

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

Language Code List

AA Afar	FA Persian	KM Cambodian	OC Occitan	SV Swedish
AB Abkhazian	FI Finnish	KN Kannada	OM (Afan) Oromo	SW Swahili
AF Afrikaans	FJ Fiji	KO Korean (KOR)	OR Oriya	TA Tamil
AM Ameharic	FO Faroese	KS Kashmiri	PA Panjabi	TE Telugu
AR Arabic	FY Frisian	KU Kurdish	PS Pashto, Pushto	TG Tajik
AS Assamese	GA Irish	KY Kirghiz	PT Portuguese	TH Thai
AY Aymara	GD Scots Gaelic	LA Latin	QU Quechua	TI Tigrinya
AZ Azerbaijani	GL Galician	LN Lingala	RM Rhaeto-Romance	TK Turkmen
BA Bashkir	GN Guarani	LO Laothian	RN Kirundi	TL Tagalog
BE Byelorussian	GU Gujarati	LT Lithuanian	RO Rumanian	TN Setswana
BG Bulgarian	HA Hausa	LV Latvian, Lettish	RW Kinyarwanda	TO Tonga
BH Bihari	HI Hindi	MG Malagasy	SA Sanskrit	TR Turkish
BI Bislama	HR Croatian	MI Maori	SD Sindhi	TS Tsonga
BN Bengali, Bangla	HY Armenian	MK Macedonian	SG Sangho	TT Tatar
BO Tibetan	IA Interlingua	ML Malayalam	SH Serbo-Croatian	TW Twi
BR Breton	IE Interlingue	MN Mongolian	SI Singhalese	UK Ukrainian
CA Catalan	IK Inupiak	MO Moldavian	SL Slovenian	UR Urdu
CO Corsican	IN Indonesian	MR Marathi	SM Samoan	UZ Uzbek
CY Welsh	IS Icelandic	MS Malay (MAY)	SN Shona	VI Vietnamese
DA Danish	IW Hebrew	MT Maltese	SO Somali	VO Volapuk
DZ Bhutani	JI Yiddish	MY Burmese	SQ Albanian	WO Wolof
EL Greek	JW Javanese	NA Nauru	SR Serbian	XH Xhosa
EO Esperanto	KA Georgian	NE Nepali	SS Siswati	YO Yoruba
ET Estonian	KK Kazakh	NL Dutch	ST Sesotho	ZU Zulu
EU Basque	KL Greenlandic	NO Norwegian	SU Sundanese	

Specifications

Amplifier section

Output Power:


FRONT SPEAKERS: (for CA-DXJ30) 100 W per channel, min. RMS, driven into 6 Ω at 1 kHz with no more than 10% total harmonic distortion.
(for CA-DXJ21) 120 W per channel, min. RMS, driven into 6 Ω at 1 kHz with no more than 10% total harmonic distortion.
(for CA-DXJ11) 125 W per channel, min. RMS, driven into 6 Ω at 1 kHz with no more than 10% total harmonic distortion.

SUBWOOFERS: (for CA-DXJ30) 100 W per channel, min. RMS, driven into 6 Ω at 63 Hz with no more than 10% total harmonic distortion.
(for CA-DXJ21) 120 W, min. RMS, driven into 6 Ω at 63 Hz with no more than 10% total harmonic distortion.

Digital output:

OPTICAL DIGITAL OUTPUT:

-21 dBm to -15 dBm (660 nm \pm 30 nm)

Digital input:  (USB MEMORY)

Audio input sensitivity/Impedance

(Measured at 1 kHz, with tape recording signal 300 mV)

AUX: 400 mV/47 k Ω

MIC1/2: 3.0 mV/50 k Ω

VIDEO OUT:

Color system: CA-DXJ30: NTSC/NTSC PROG
/PAL/PAL PROG

CA-DXJ11/CA-DXJ21: NTSC/PAL

VIDEO (composite): 1 V(p-p)/75 Ω

S-VIDEO: Y (luminance) 1 V(p-p)/75 Ω

C (chrominance, burst)

NTSC 0.286 V(p-p)/75 Ω

PAL 0.3 V(p-p)/75 Ω

CA-DXJ30 only: COMPONENT (Interlace/Progressive):

(Y) 1 V(p-p)/75 Ω

(PB/PR) 0.7 V(p-p)/75 Ω

Speaker Terminals: 6 Ω - 16 Ω (front speakers/subwoofers)

Tuner section

FM tuning range: 87.50 MHz - 108.00 MHz

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

530 kHz - 1 710 kHz (at 10 kHz)

For Saudi Arabia: 531 kHz - 1 602 kHz (at 9 kHz)

530 kHz - 1 600 kHz (at 10 kHz)

Disc/File player section

Region codes:

Middle East: 2

South East Asia: 3

Central and South America, Australia: 4

Playable disc: DVD Video/DVD Audio (CA-DXJ30

only)/CD/VCD/SVCD

CD-R/CD-RW (MP3/WMA/WAV/

JPEG/MPEG-1/MPEG-2/ASF/DivX

format)

DVD-R/-RW (DVD-VR/DVD-video/

MP3/WMA/WAV/JPEG/MPEG-1/

MPEG-2/ASF/DivX format)

+R/+RW (DVD-video/MP3/WMA/

WAV/JPEG/MPEG-1/MPEG-2/ASF/

DivX format)

DVD-ROM (DVD-video/MP3/WMA/

WAV/JPEG/MPEG-1/MPEG-2/ASF/

DivX format)

Playable file: MP3/WMA/WAV/JPEG/MPEG-1/

MPEG-2/ASF/DivX format

Dynamic range: 80 dB

Horizontal resolution: 500 lines

Wow and flutter: Immeasurable

USB storage section

USB specification: Compatible with USB 2.0 Full Speed

Compatible device: Mass storage class

Compatible file system: FAT 16, FAT 32

Bus power supply: 5 V/500 mA

Cassette deck section

Frequency response

Normal (type I): 50 Hz - 14 000 Hz

Wow and flutter: 0.15% (WRMS)

General

Power requirement: AC 110 V / AC 127 V / AC 220 V /
AC 230 V - AC 240 V \sim , (adjustable
with the voltage selector), 50 Hz / 60 Hz

For Australia: AC 240 V \sim , 50 Hz

Power consumption:

CA-DXJ11: 95 W (at operation) / 15 W (on standby)

CA-DXJ21: 140 W (at operation) / 16 W (on standby)

CA-DXJ30: 170 W (at operation) / 21 W (on standby)

Dimensions (W/H/D) (approx.): 185 mm x 370 mm x 372 mm

Mass (approx.): CA-DXJ11: 8.9 kg

CA-DXJ21: 9.3 kg

CA-DXJ30: 9.5 kg

Supplied Accessories

See page 3.

Design and specifications are subject to change without notice.

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 - "Official DivX[®] Ultra Certified product" "Plays all versions of DivX[®] video (including DivX[®] 6) with enhanced playback of DivX[®] media files and the DivX[®] Media Format" "DivX, DivX Ultra Certified, and associated logos are trademarks of DivX, Inc. and are used under licence."
 - This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.
 - USE OF THIS PRODUCT IN ANY MANNER THAT COMPLIES WITH THE MPEG-4 VISUAL STANDARD IS PROHIBITED, EXCEPT FOR USE BY A CONSUMER ENGAGING IN PERSONAL AND NON-COMMERCIAL ACTIVITIES.
- (CA-DXJ30 only)**
- "CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 OR 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p AND 625p DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER."

Parts Index

Remote control

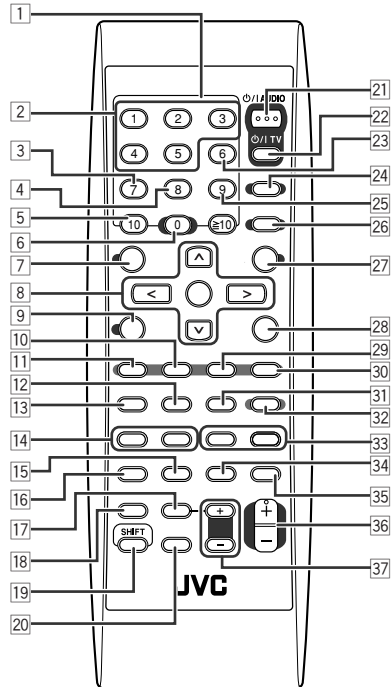
Button	Page	Button	Page
⏻/I AUDIO	21 8, 36	MIC MIX	16 31, 34
⏻/I TV	22 39	MENU/PL	27 11, 27
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		ZOOM	34 19, 28

Main unit

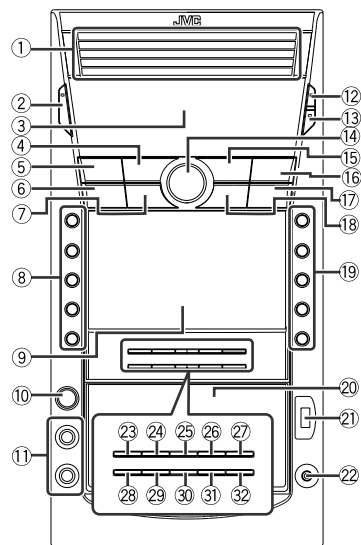
Button	Page	Button	Page
⏻/I	2 8, 36	Disc trays	1 11
Display	3 7	DVD/CD ▶	5 8, 10
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Button	Page	Button	Page
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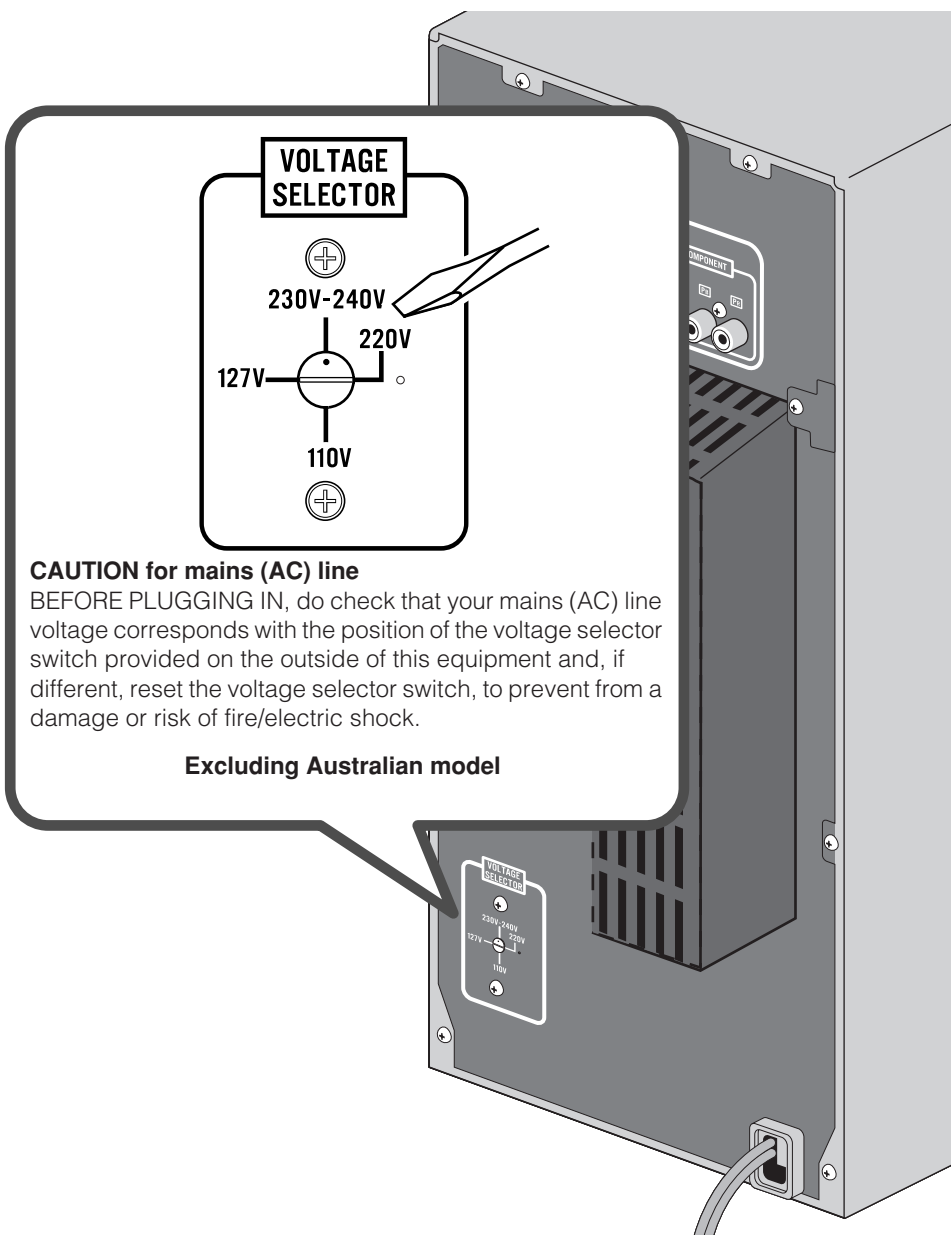
Remote control



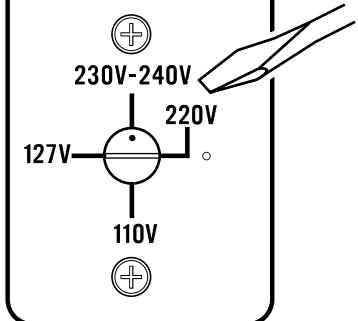
Main unit



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



VOLTAGE SELECTOR



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

Excluding Australian model



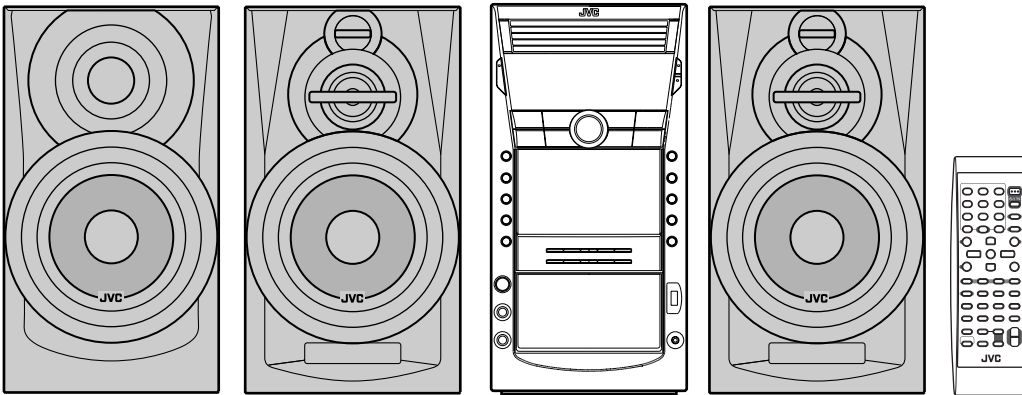
JVC



COMPACT COMPONENT SYSTEM

DX-J21

— Consists of CA-DXJ21, SP-DXJ21F, and SP-DXJ21W



MP3/WMA/WAV



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. _____

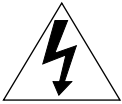
Serial No. _____

INSTRUCTIONS

Warnings, Cautions and Others

Mises en garde, précautions et indications diverses

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		

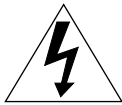


The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



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.

	ATTENTION RISQUE D'ÉLECTROCUTION NE PAS OUVRIR	
ATTENTION: POUR ÉVITER TOUT RISQUE D'ÉLECTROCUTION, NE PAS OUVRIR LE BOÎTIER. AUCUNE PIÈCE INTÉRIEURE N'EST À RÉGLER PAR L'UTILISATEUR. SE RÉFÉRER À UN AGENT QUALIFIÉ EN CAS DE PROBLÈME.		



Le symbole de l'éclair à l'intérieur d'un triangle équilatéral est destiné à alerter l'utilisateur sur la présence d'une "tension dangereuse" non isolée dans le boîtier du produit. Cette tension est suffisante pour provoquer l'électrocution de personnes.



Le point d'exclamation à l'intérieur d'un triangle équilatéral est destiné à alerter l'utilisateur sur la présence d'opérations d'entretien importantes au sujet desquelles des renseignements se trouvent dans le manuel d'instructions.

WARNING:
TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

AVERTISSEMENT:
POUR PRÉVENIR LES RISQUES D'INCENDIE OU DE CHOCS ÉLECTRIQUES, NE PAS EXPOSER CE APPAREIL À LA PLUIE OU À L'HUMIDITÉ.

For U.S.A.

Caution: Changes or modifications not expressly approved by party responsible for compliance could void the user's authority to operate the equipment.

Note: 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.

Pour les Etats-Unis

Attention: Les changements ou les modifications qui ne sont pas explicitement approuvés par la partie responsable de l'observance pourraient mettre fin au droit de l'utilisateur d'utiliser le matériel.

Remarque: Cet appareil a été testé et il s'est avéré conforme aux limites applicables à un appareil numérique de classe B, en vertu de la Partie 15 des Règles de la FCC. Ces limites sont conçues de manière à assurer une protection raisonnable contre les interférences nuisibles dans une installation résidentielle.

Cet appareil produit, utilise et peut émettre une énergie de haute fréquence et, s'il n'est pas installé et utilisé en conformité avec les instructions, il peut causer des interférences nuisibles aux communications radio. Il n'y a, toutefois, aucune garantie que des interférences ne se produiront pas dans une installation particulière. Si cet appareil cause effectivement des interférences nuisibles à la réception de la radio ou de la télévision, ce qu'on peut établir en mettant l'appareil en marche et à l'arrêt, nous encourageons l'utilisateur à tenter de corriger l'interférence par une ou plusieurs des mesures suivantes:

- réorienter ou déplacer l'antenne de réception;
- accroître la séparation entre l'appareil et le récepteur;
- brancher l'appareil dans une prise ou un circuit autre que celui auquel le récepteur est branché;
- consulter un vendeur ou un technicien radio/TV expérimenté pour obtenir de l'aide.

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 NUMERIQUES DE CLASSE B PRESCRITES DANS LA NORME SUR LE MATERIEL BROUILLEUR: "APPAREILS NUMERIQUES", NMB-003 EDICTEE PAR LE MINISTRE DES COMMUNICATIONS.

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

The O/I button in any position does not disconnect the mains line.

Disconnect the mains plug to shut the power off completely (the STANDBY lamp goes off).

The MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

- When the system is on standby, the STANDBY lamp lights red.
- When the system is turned on, the STANDBY lamp goes off.

The power can be remote controlled.

ATTENTION

La touche O/I , dans n'importe quelle position, ne déconnecte pas le système du secteur.

Déconnectez la fiche de secteur pour mettre l'appareil complètement hors tension (le témoin STANDBY s'éteint).

La fiche secteur ou un coupleur est utilisé comme dispositif de déconnexion de l'appareil, et l'appareil déconnecté doit être prêt à être utilisé.

- Quand le système est en attente, le témoin STANDBY est allumé en rouge.
- Quand le système est sous tension, le témoin STANDBY s'éteint.

L'alimentation peut être télécommandée.

CAUTION:

Excessive sound pressure from earphones or headphones can cause hearing loss.

ATTENTION:

Une pression acoustique excessive des écouteurs ou du casque d'écoute peut entraîner une perte auditive.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover or cabinet. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED INSIDE THE UNIT.

IMPORTANT POUR PRODUITS LASER

1. PRODUIT LASER CLASSE 1
2. **ATTENTION:** N'ouvrez pas le couvercle supérieur ni le coffret de l'appareil. 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:** Rayonnement laser visible et/ou invisible de classe 1M une fois ouvert. Ne pas regarder directement avec des instruments optiques.
4. REPRODUCTION DE L'ÉTIQUETTE: ÉTIQUETTE DE PRÉCAUTION PLACÉE À L'INTERIEUR DE L'APPAREIL.

CAUTION VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	ATTENTION RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	AVISO RADIACION LASER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTA ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL OPTICO. (ESP)	VARNING SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÅR DENNA ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	注意 この装置はレーザー 及び赤外線不可視 のクラス1M レーザー放射が 放射する。 光学装置で直接 見ないでください。 (JPN)	CAUTION VISIBLE AND/OR INVISIBLE CLASS 1 LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG) LV4493-033A
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CAUTION!

To avoid personal injury or accidentally dropping the unit, have two persons unpack, carry, and install the unit.

ATTENTION!

Pour éviter toute blessure personnelle ou toute chute accidentelle de l'appareil, celui-ci doit être déballé, transporté et installé par deux personnes.



23.2 kg/52 lbs

CAUTION

Battery shall not be exposed to excessive heat such as sunshine, fire or the like.

ATTENTION

Les piles ne doivent en aucun cas être exposées à une chaleur excessive (lumière du soleil, feu, etc.).



[European Union only]
[Union européenne seulement]

CAUTION:

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

ATTENTION:

- Ne bloquez pas les orifices ou les trous de ventilation. (Si les orifices ou les trous de ventilation sont bloqués par un journal un tissu, etc., la chaleur peut ne pas être évacuée correctement de l'appareil.)
- Ne placez aucune source de flamme nue, telle qu'une bougie, sur l'appareil.
- Lors de la mise au rebut des piles, veuillez prendre en considération les problèmes de l'environnement et suivre strictement les règles et les lois locales sur la mise au rebut des piles.
- N'exposez pas cet appareil à la pluie, à l'humidité, à un égouttement ou à des éclaboussures et ne placez pas des objets remplis de liquide, tels qu'un vase, sur l'appareil.

Caution: Proper Ventilation

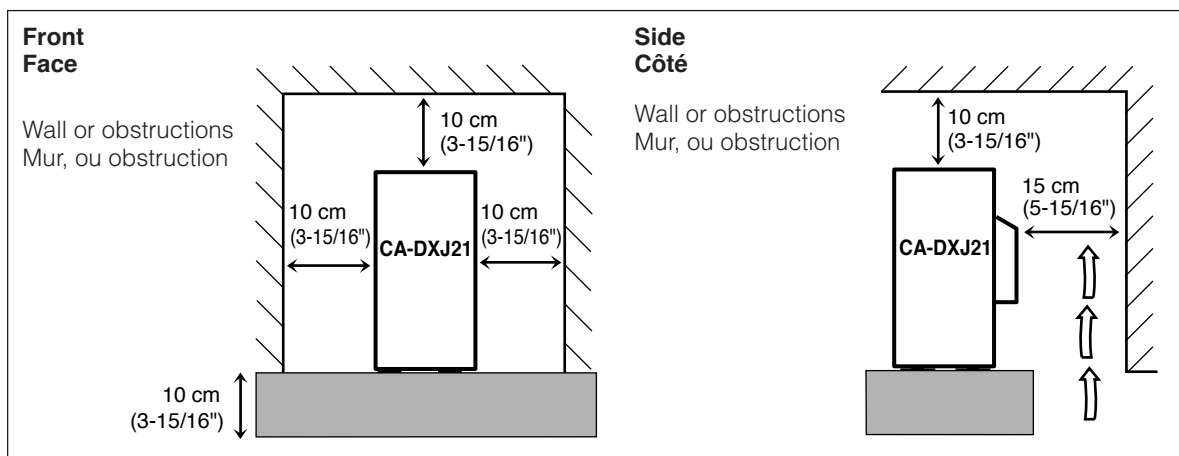
To avoid risk of electric shock and fire, and to prevent damage, locate the apparatus as follows:

1. Front: No obstructions and open spacing.
2. Sides/Top/Back: No obstructions should be placed in the areas shown by the dimensions below.
3. Bottom: Place on the level surface. Maintain an adequate air path for ventilation by placing on a stand with a height of 10 cm (3-15/16") or more.

Attention: Aération correcte

Pour prévenir tout risque de décharge électrique ou d'incendie et éviter toute détérioration, installez l'appareil de la manière suivante:

1. Avant: Bien dégagé de tout objet.
2. Côtés/dessus/dessous: Assurez-vous que rien ne bloque les espaces indiqués sur le schéma ci-dessous.
3. Dessous: Posez l'appareil sur une surface plane et horizontale. Veillez à ce que sa ventilation correcte puisse se faire en le plaçant sur un support d'au moins dix centimètres de hauteur.



Introduction

Playable Disc/File Types

INFO



The “√” in the list below shows available disc/file types.

Recording format		Media type		
		CD-R/-RW*1	DVD-R/-RW, +R/+RW*2	USB mass storage class device
Discs	CD-DA (normal CD)	√	—	—
	VCD/SVCD	√	—	—
	DVD Video	—	√	—
	DVD-VR	—	√*3	—
AV files	Audio file: MP3/WMA/WAV	√	√	√
	Video file: MPEG-1/MPEG-2/ ASF	√	√	√
	Still picture file: JPEG	√	√	√

*1 Recorded with “ISO 9660” format.

*2 Recorded with “UDF-Bridge” format.

*3 Not applicable for +R/+RW.

In addition to the above discs/files, this System can play back audio data recorded on CD-Extra and DVD/CD Text.

- The following discs cannot be played back: DVD-RAM, CD-I (CD-I Ready), Photo CD and CD-G (CD-Graphics).
Playing back these discs will generate noise and damage the speakers.
- This System cannot play back DVD-VR disc with CPRM (Content Protection for Recordable Media).
- DVD Logo is a trademark of DVD Format/Logo Licensing Corporation.
- In this manual, “file” and “track” are interchangeably used for AV file operations.
- It is possible to play back finalized +R/+RW (DVD Video format only) discs.

Caution for DualDisc playback:

The Non-DVD side of a “DualDisc” does not comply with the “Compact Disc Digital Audio” standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

About color system

This System accommodates both NTSC and PAL system and can play back discs/files recorded in either system. To change the color system, see page 6.

Note on Region Code

DVD Video players and DVD Video discs have their own Region Code numbers. This system can play back DVD Video discs whose Region Code numbers include “1.”



Audio formats

The System can play back the following digital audio formats.

- **LPCM** (Linear PCM), **DIGITAL** (Dolby Digital), **DTS** (Digital Theater Systems), **MPEG Audio**
- Multi-channel sound will be downmixed into 2-channels. To enjoy multi-channel sound, connect a compatible decoder or an amplifier with a compatible decoder to the OPTICAL DIGITAL OUTPUT terminal on the rear.

How to Read This Manual

- Button and control operations are explained in the table below.
- **Some related tips and notes are explained later in the sections “Learning More about This System” and “Troubleshooting,” but not in the same section explaining the operations (INFO indicates that the content has some information).**

	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 a press (in the example, 2 seconds).
	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 main unit.



Precautions

Installation

- Install the System in a location with adequate ventilation to prevent internal heat build-up 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.

- Install in a place which is level, dry and neither too hot nor too cold—between 5°C and 35°C (41°F and 95°F).
- Leave sufficient distance between the System and the TV.
- Keep the speakers away from the TV to avoid interference with the 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 in the lenses on 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

- Make sure there is good ventilation around the System. Poor ventilation could overheat and damage the System. –A cooling fan is inside the System to prevent heat build-up.



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

Others

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



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

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

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

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Connections

Do not connect the AC power cord until all other connections have been made.

- Connect VIDEO OUT directly to the video input of your TV. Connecting VIDEO OUT to a TV via a VCR may interfere with your viewing when playing back a copy-protected source. Connecting VIDEO OUT to an integrated TV/VCR system may interfere with your viewing.

Supplied accessories

- FM antenna (x1)
- AM loop antenna (x1)
- Composite video cord (x1)
- Remote control (x1)
- Batteries (x2)

If any item is missing, consult your dealer immediately.

1 From the video input of TV/monitor
See page 4.

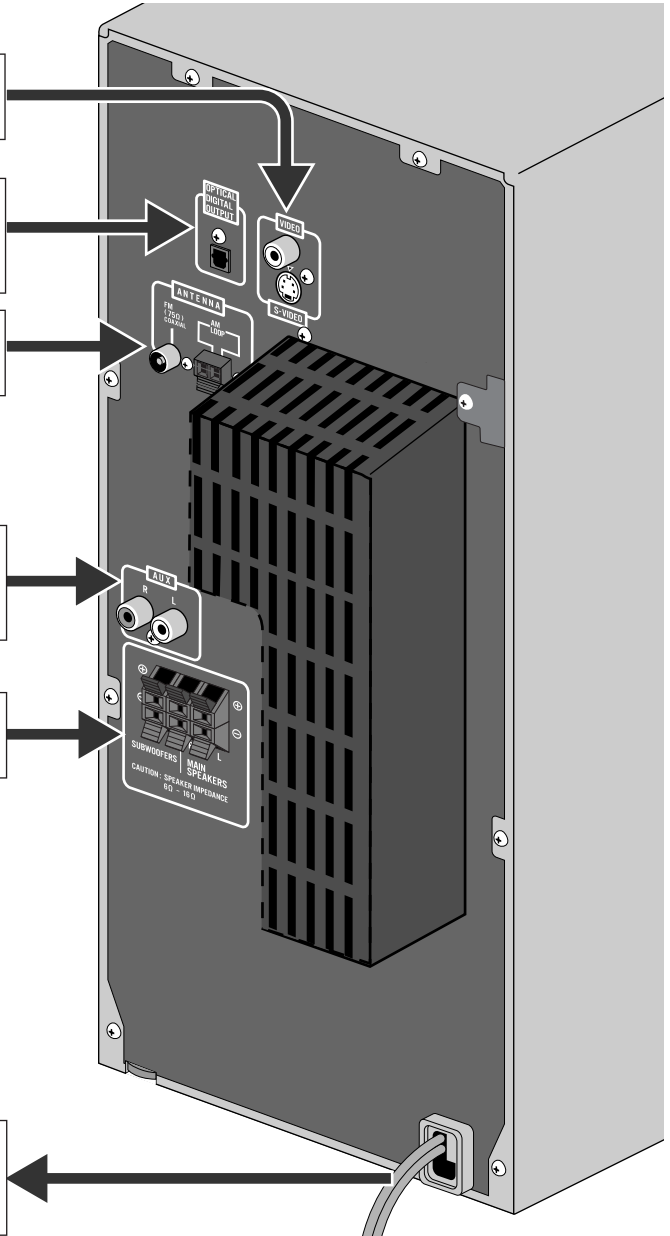
2 From the digital input of digital audio component
See page 4.

3 From AM/FM antenna
See page 4.

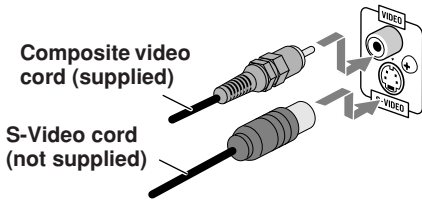
4 From the analog audio output of auxiliary equipment (VCR, etc.)
See page 5.

5 From the speakers and the subwoofer
See page 5.

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

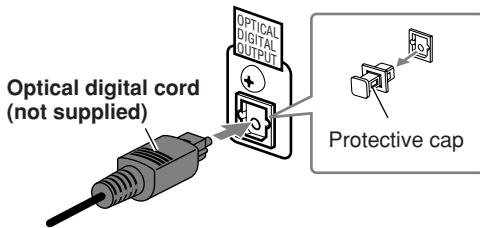


1 TV/monitor



- Connect the VIDEO jack or S-VIDEO jack; whichever you want to use.
 - You can get better picture quality by connecting with S video cord.

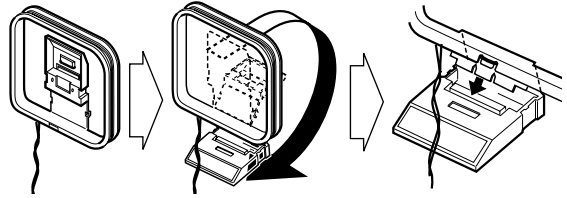
2 Digital audio component



- Set “DIGITAL AUDIO OUTPUT” in the “AUDIO” menu correctly according to the connected digital audio equipment (see page 38).
- The digital signal through the OPTICAL DIGITAL OUTPUT terminal is transmitted only when “DVD/CD” is selected as the source.

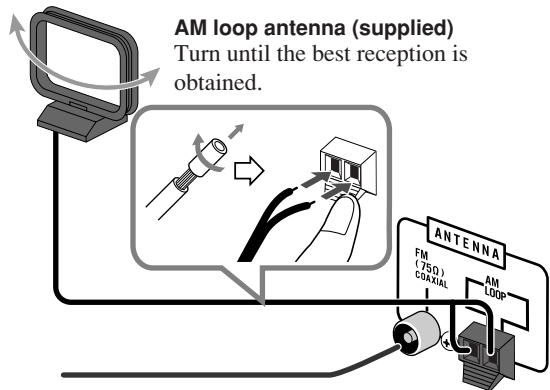
3 AM/FM antenna

To assemble the AM loop antenna



To connect AM/FM antenna

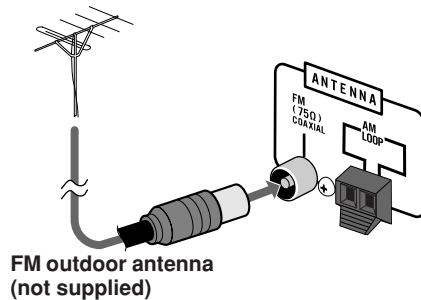
- If the antenna cord is covered with vinyl on the tip, twist and pull the vinyl off to remove.



FM antenna (supplied)

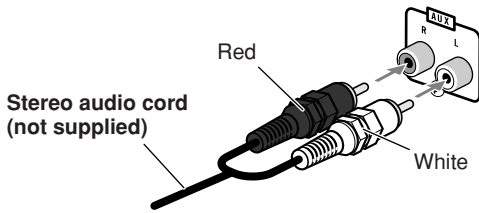
Extend it so that you can obtain the best reception.

For better FM reception



- Disconnect the supplied FM antenna, and connect an outdoor FM antenna using a 75 Ω wire with coaxial type connector.
- Make sure the antenna conductors do not touch any other terminals, connecting cords or the 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.

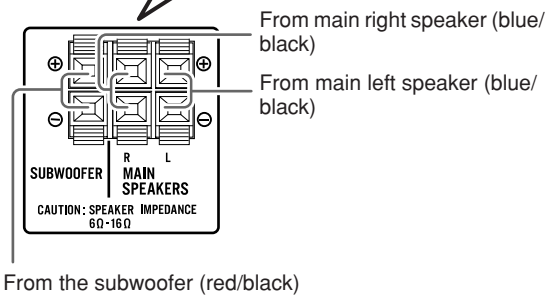
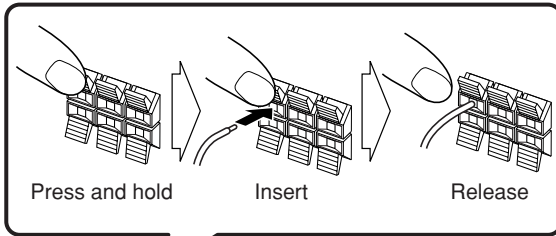
4 Auxiliary equipment



5 Speakers and the subwoofer

To connect the speaker cords

- When connecting the speaker cords, match their polarity with that of the speaker terminals: blue/red to (+) and black to (-).



- Use only speakers with the same speaker impedance as indicated by the speaker terminals on the rear of the System.
- The main speakers and subwoofer are magnetically shielded to avoid color distortions on TVs. However, if not installed properly, it may cause color distortions. So, pay attention to the following when installing the speakers.

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

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

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



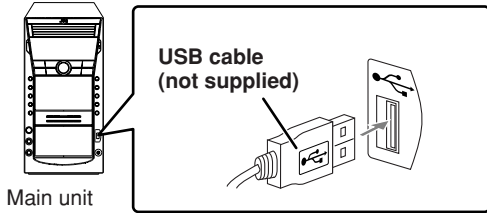
- DO NOT connect more than one speaker to each terminal.
- DO NOT push or pull the speakers as this will damage the foot spacers at the bottom of the speakers.

6 Power cord

Plug the AC power cord to a wall outlet.

Connecting a USB Mass storage class device

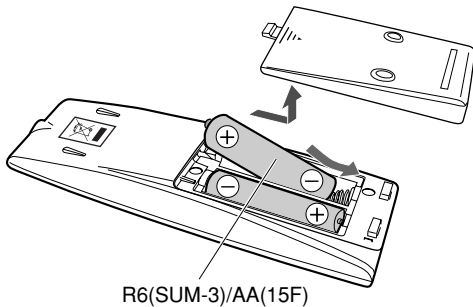
You can connect a USB mass storage class device such as a USB flash memory, hard disk drive, multimedia card reader, digital camera, etc. to this System.



- You cannot connect a personal computer to the (USB MEMORY) terminal of the System.
- When connecting with a USB cable, use the USB 2.0 cable whose length is less than 1 m (3.3 ft).

Preparing the Remote Control

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



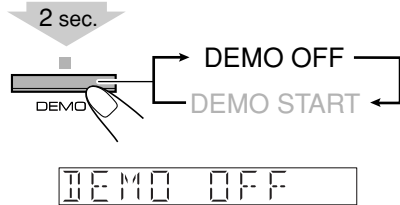
When using the remote control, point the top of the remote control toward the remote sensor as directly as possible. If you operate it from a diagonal position, the operating range (approx. 5 m/16.4 ft) may be shorter.

- If the range of effectiveness of the remote control decreases, replace both batteries.

Caution:

Battery shall not be exposed to excessive heat such as sunshine, fire or the like.

Canceling the Demonstration



To start the demonstration, select DEMO START.

Changing the Color System



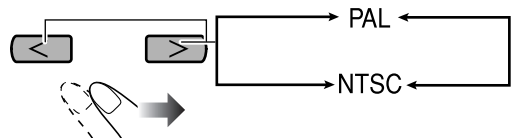
You can select the video output to match it to the color system of your TV (NTSC or PAL).

- You can change the setting only while playback is stopped.

1 Enter the color system setting mode.



2 Select the color system.

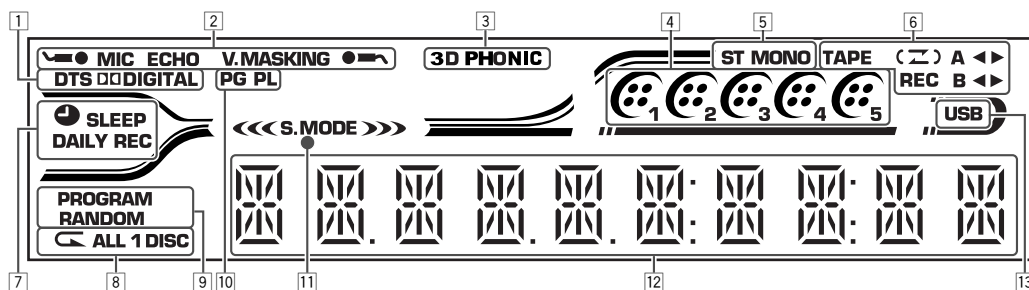


3 Store the setting.



Display Indication

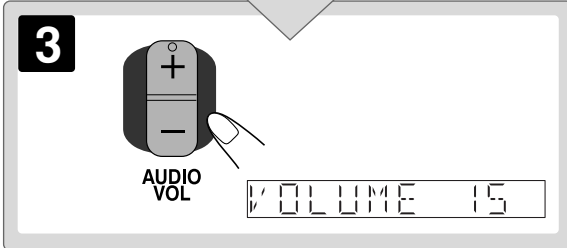
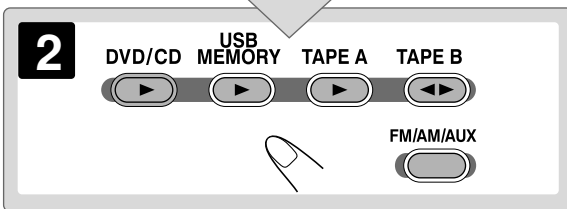
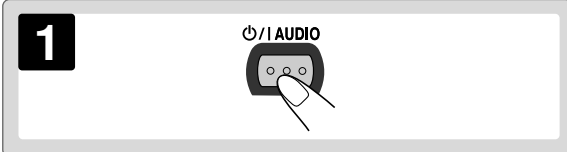
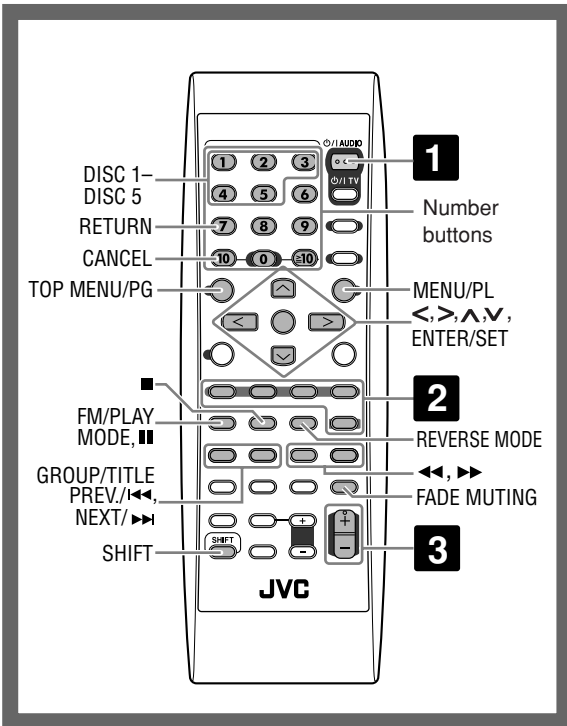
The indications on the display tell you a lot of things while you are operating the System. Before operating the System, be familiar with when and how the indicator illuminates on the display.



- 1 Source signal indicators
 - DTS: lights when DTS signals are detected.
 - DIGITAL: lights when Dolby Digital signals are detected.
- 2 Karaoke operation indicators
 - /MIC/: lights when Mic Mixing is activated; flashes when Karaoke Scoring is in use.
 - ECHO: lights when Echo is activated.
 - V.MASKING: lights when Vocal Masking is activated.
- 3 3D PHONIC indicator
 - Lights when 3D Phonic is activated.
- 4 Disc indicators
 - 1 – 5: lights to indicate the current disc tray.
 - : lights when a disc is detected on the disc tray; rotates during playback or pause.
- 5 FM reception indicators
 - ST (stereo): lights while an FM stereo station with sufficient signal strength is tuned in.
 - MONO: lights while receiving an FM stereo station in monaural.
- 6 Tape operation indicators
 - TAPE: lights when a tape is loaded in either deck A or B.
 - (Reverse Mode): indicates the current Reverse Mode.
 - A: lights when a tape is in deck A.
 - B: lights when a tape is in deck B.
 - * (tape direction):
 - Lights to indicate the current tape running direction.
 - Flashes slowly during playback and recording.
 - Flashes quickly while rewinding a tape.
 - * indicator for deck A is available only when the tape is being rewinded.
 - REC: lights while recording.
- 7 Timer indicators
 - : lights when Daily Timer or Recording Timer is on standby, is working, or being set.
 - SLEEP: lights when the Sleep Timer is activated.
 - DAILY: lights when the Daily Timer is on standby; flashes while working or being set.
 - REC: lights when the Recording Timer is on standby; flashes while working or being set.
- 8 Repeat mode indicators
 - : lights when Repeat Play is activated.
 - ALL: lights when All File Repeat is activated (only for USB)
 - ALL DISC: lights when All Disc Repeat is activated.
 - 1 DISC: lights when One Disc Repeat is activated.
 - 1: lights when One Track/Chapter/File/Step Repeat is activated.
- 9 Play mode indicators
 - PROGRAM: lights when Program Play is activated.
 - RANDOM: lights when Random Play is activated.
- 10 PG/PL indicator
 - PG: lights when Original Program is selected for DVD-VR playback.
 - PL: lights when Play List is selected for DVD-VR playback.
- 11 Sound Mode indicators
 - S.MODE: lights when one of the Sound Modes is activated.
 - : lights when one of the Sound Modes with surround effect is activated.
- 12 Main display
- 13 USB indicator
 - Lights when “USB” is selected as the source.

Daily Operations—Playback

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



1 Turn on the power.

The STANDBY lamp on the main unit goes off.

- Without pressing **O/I AUDIO**, the System also 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 playback.

- To listen to the sound of the external component, press **FM/AM/AUX** repeatedly to select “AUX” as the source, then start playback on the external component.

3 Adjust the volume.

To turn off (standby) the System



The STANDBY lamp on the main unit lights in red.



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

For private listening

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

- Disconnecting the headphones will activate the speakers again.



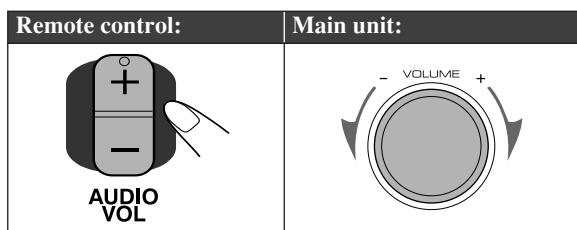
DO NOT turn off (standby) the System with the volume set to an extremely high level; otherwise, the sudden blast of sound can damage your hearing, speakers and/or headphones when you turn on the System or start playback.

How to select a number

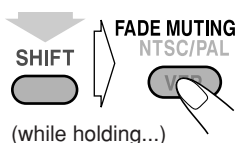
- 1** **2** **3** To select 5, press 5.
- 4** **5** **6** To select 10, press 10.
- 7** **8** **9** To select 15, press ≥ 10 , 1, then 5.
- 10** **0** ≤ 10 To select 30, press ≥ 10 , 3, then 0.
- To select 125, press ≥ 10 , ≥ 10 , 1, 2, then 5.

Adjusting the Volume

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



To drop the volume in a moment

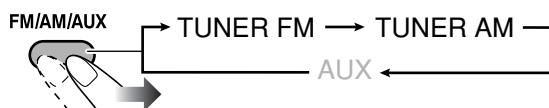


To restore the volume, press again or adjust the volume level.

Listening to the Radio

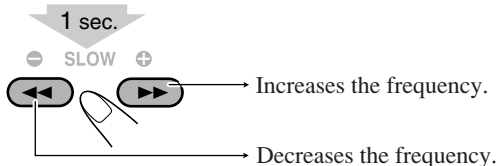
INFO

To select the band (FM/AM)



To tune in to a station

While FM or AM is selected...



Frequency starts changing on the display.

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

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

To manually stop the searching, press either button.

If the FM reception is poor



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 stations

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.

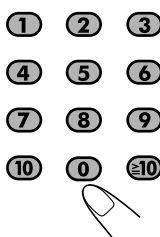
2 Activate the preset number entry mode.

ENTER/SET



- Finish the following process while the indication on the display is flashing.
- To cancel the operation during procedure, press CANCEL while holding SHIFT.

3 Select a preset number for the station you store.



- To select a number, see “How to select a number” on page 8.
- You can also use ►/|◀ buttons.

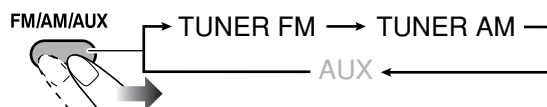
4 Store the station.

ENTER/SET

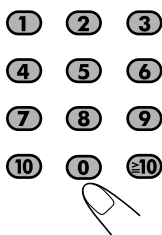


To tune in to a preset station

1 Select the band (FM or AM).



2 Select the preset number for the station you stored.




- To select a number, see “How to select a number” on page 8.
- You can also use ►/|◀ buttons.

Playing Back a Disc/USB Mass Storage Class Device

INFO

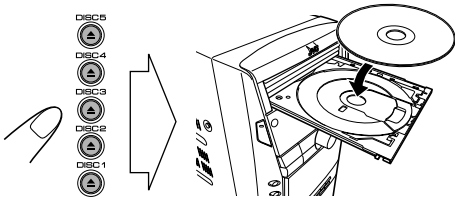
IMPORTANT: Before playing a disc/USB mass storage class device, make sure of the following...

- Turn on the TV and select an appropriate input mode on the TV to view the pictures or on-screen displays.
- For disc/USB mass storage class device playback, you can change the initial setting to your preference. See “Setup Menu Operations” on page 37.


If “” appears on the TV screen when you press a button, the disc/USB mass storage class device cannot perform the operation you have tried to do.


- For playback of AV files, see also “Operations Using the Control Screen” on page 27.

To insert discs

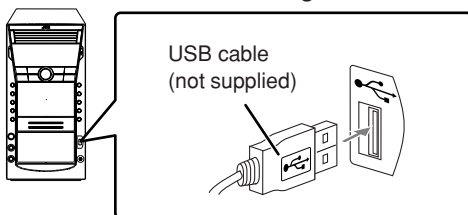


- When using an 8 cm (3-3/16 inches) disc, place it on the inner circle of the disc tray.

To close the disc tray, press the same  button again.

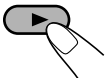



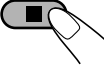

- If you press  for the same tray, the disc tray closes and playback starts automatically.



To connect a USB mass storage class device




- Always set the volume to the minimum level when connecting or disconnecting the USB mass storage class device.
- To disconnect the USB mass storage class device safely, turn off the System before disconnecting the device.

To play back disc/USB mass storage class device

To start:		
Disc	USB mass storage class device	
DVD/CD	USB MEMORY	Playback starts.
		
To pause:		To stop:
FM/PLAY MODE	To release it, press DVD/CD  or USB MEMORY  .	
		

While playing, this System can store the stop point (not applicable for CD). When you start playback again by pressing DVD/CD  or USB MEMORY , it starts from the position where you have stopped—Resume Play. (“RESUME” appears when you stop playback.)

To stop completely while Resume is activated, press  twice. (To cancel Resume, see “RESUME” on page 38.)

On-screen guide icons

- During playback, the following icons may appear for a while on the TV screen:



Appears at the beginning of a scene containing multi-angle views.



Appears at the beginning of a scene containing multi-audio languages.



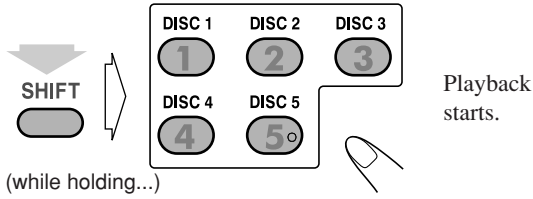
Appears at the beginning of a scene containing multi-subtitle languages.

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



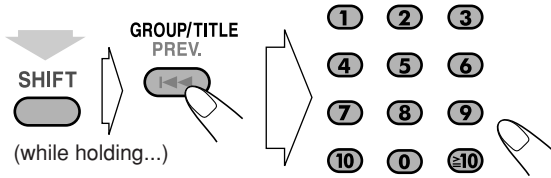
- To deactivate the on-screen guide icons, see “ON SCREEN GUIDE” in “OTHERS” menu on page 38.

To select a disc



To select a title/group

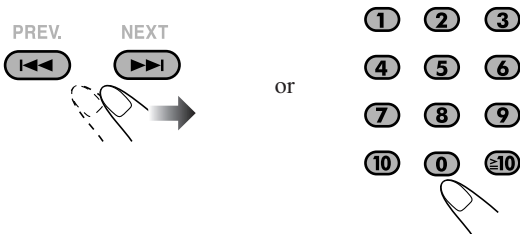
While playing...



- To select a number, see “How to select a number” on page 8.

To select a chapter/track

While playing...

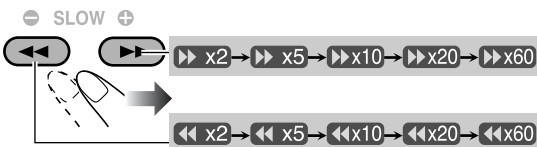


- The first time you press **PREV.**, you will go back to the beginning of the current chapter/track.
- To select a number, see “How to select a number” on page 8.

To locate a particular portion

- This does not function for JPEG files.

While playing...



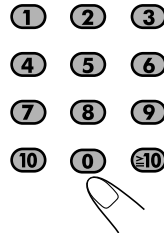
- Search speed changes as above for all discs/files except for MP3/WMA/WAV files. For MP3/WMA/WAV files, search speed is different.
- No sound comes out if searching is carried out while showing the moving picture.

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

To select an item directly

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

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



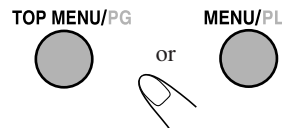
- To select a number, see “How to select a number” on page 8.

To play back by using the disc menu

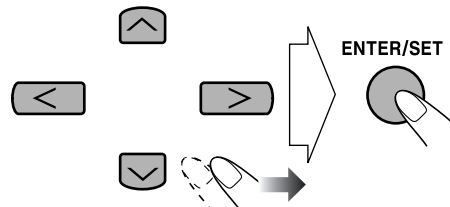
You can operate the disc play using the disc menu.

■ For DVD Video

1 Show the disc menu.



2 Select an item on the disc menu.

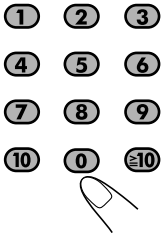


- On some discs, you can also select items by entering the number using the number buttons. To select a number, see “How to select a number” on page 8.

■ For SVCD/VCD with PBC

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

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



- To select a number, see "How to select a number" on page 8.

To move to the next or previous page of the current menu:	To return to the previous menu:
	<p>(while holding...)</p>

To cancel PBC, press ■, then press ►►.

- You can also cancel PBC by pressing ■, then pressing the number buttons. Playback starts with the selected track.

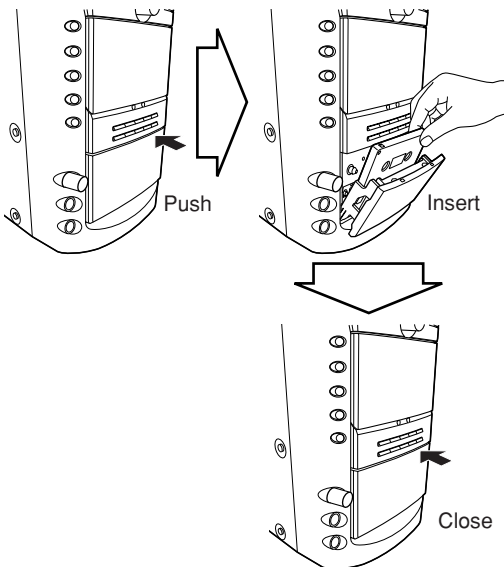
To reactivate PBC, press ■, then press ◀◀.

Playing Back a Tape ●●●●●●●●

To insert a tape

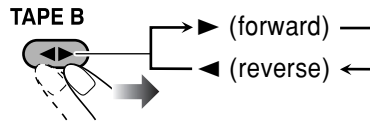
You can play back type I tapes.

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

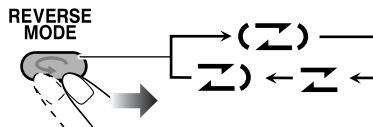


To start playback:	To stop:
To rewind or fast-forward tape:	

To change the tape running direction (deck B only)



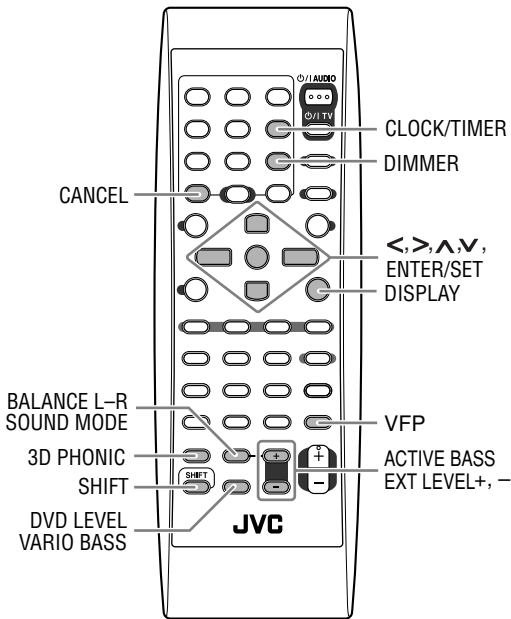
To reverse the tape automatically (deck B only)



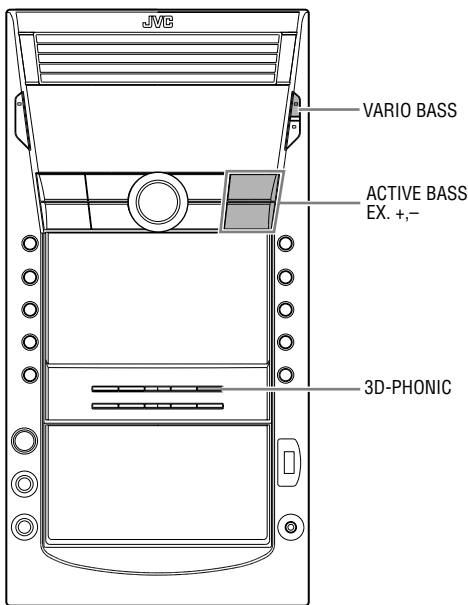
	Tape is reversed, and playback repeats until you stop it.
	Tape is not reversed. When the current side of the tape reaches its end, playback stops.
	Tape is reversed once.

Daily Operations—Sound & Other Adjustments

Remote Control



Main unit

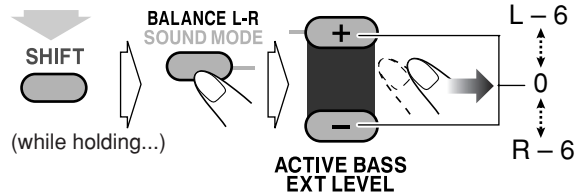


Adjusting the Speaker Output

Balance



You can adjust the speaker output balance.

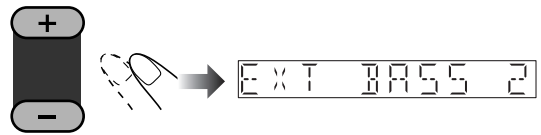


Reinforcing the Bass Sound

INFO

You can adjust the Active Bass level from level 1 (minimum) to level 4 (maximum).

Initial setting: 4



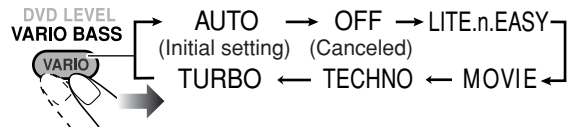
ACTIVE BASS EXT LEVEL

- This function is not available when VARIO BASS is set to "OFF" or headphones are plugged in.

Applying an Optimal Bass Sound Effect

—VARIO BASS

VARIO BASS function adjusts bass sound characteristics to create a sound suitable for the playback source of your preference.



AUTO The System automatically applies TURBO, LITE.n.EASY, MOVIE or TECHNO according to the playback source (initial setting).

LITE.n.EASY Suitable for Karaoke and classical music. You can obtain a comfortable bass sound.

MOVIE Suitable for a video source and playback of external component. You can obtain a strong bass sound.

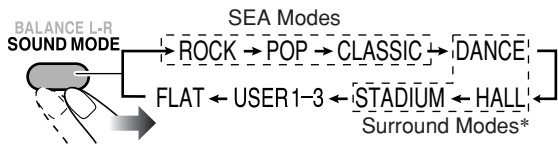
TECHNO Suitable for disco or techno music and playback of cassette tapes. You can obtain a strong bouncy bass sound.

TURBO Suitable for most kinds of music and playback of external component. You can obtain a balanced bass sound.

Selecting the Sound Modes



You can select one of the preset Sound Modes.



SEA (Sound Effect Amplifier) Modes	
ROCK	Boosts low and high frequency. Good for acoustic music (initial setting).
POP	Good for music with an emphasis on vocal.
CLASSIC	Good for classical music.
Surround Modes*	
DANCE	Increases resonance and bass.
HALL	Adds depth and brilliance to the sound.
STADIUM	Adds clarity and spreads the sound, as in an outdoor stadium.
User Modes	
USER1/2/3	Your individual mode stored in memory. See the next column “Creating Your Own Sound Modes—User Mode.”

* Surround elements are added to the SEA elements to create being-there feel in your room.

- While one of the Sound Modes is activated, S.MODE indicator lights up.
- While one of the Sound Modes with surround effect is activated, “<<<< >>>>” lights up.

To cancel the Sound Mode, select “FLAT.”

Creating Your Own Sound Modes

—User Mode



You can adjust the preset Sound Modes to create your own Sound Modes which suit your taste. The changed settings can be stored as the USER1, USER2 and USER3 Modes.

While “USER1,” “USER2” or “USER3” is shown on the display...

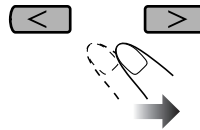
1

ENTER/SET

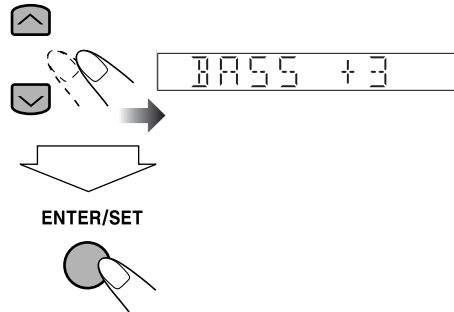


2 Select the SEA parameter you want to adjust.

- ① Adjust BASS.
- ② Adjust MID (Mid-range).
- ③ Adjust TRE (Treble).

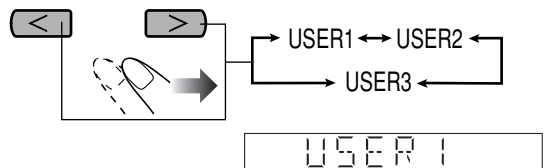


3 Adjust the parameter.



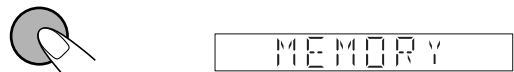
- You can adjust the bass, mid and treble level from –3 to +3.
- Repeat steps **2** and **3** to adjust the other parameters.

4 Select one of the User Modes.



5 Store the setting.

ENTER/SET



- You can adjust the SEA pattern temporarily by doing the operation on steps **1** to **3**. The adjustment is cleared when you change the sound mode to another mode.
- To create your own Sound Mode with surround effect, select DANCE, HALL or STADIUM first, then go through steps **1** to **5**.

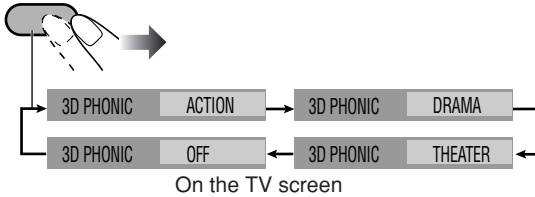
Creating 3-Dimensional Sound Field—3D Phonic

INFO

This function is available only for disc/USB mass storage class device playback.

While playing a disc/USB mass storage class device...

3D PHONIC



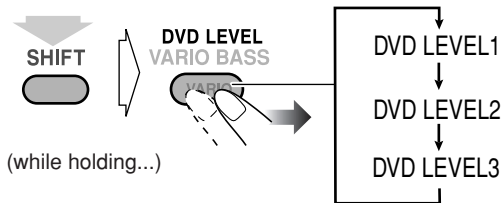
ACTION	Suitable for action movies and sports programs.
DRAMA	Creates natural and warm sound. Enjoy movies in a relaxed mood.
THEATER	Enjoy sound effects like in a major theater.

Presetting Automatic DVD Video Sound Increase Level

Remote ONLY

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

- This function is available only for DVD Video discs.



- As the number increases, sound level also increases.
- The initial setting is “DVD LEVEL3.”

Changing the Picture Tone

Remote ONLY

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

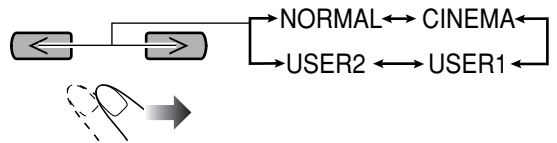
To select a preset picture tone

- 1 While playing, display VFP setting screen.



On the TV screen

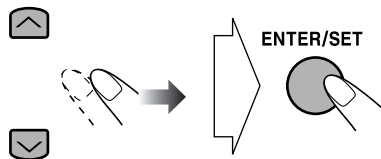
- 2 Select a preset picture tone.



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

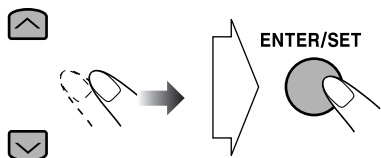
To adjust the picture tone

- 1 Select "USER1" or "USER2."
 - Follow steps 1 and 2 on page 15.
- 2 Select a parameter you want to adjust.



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

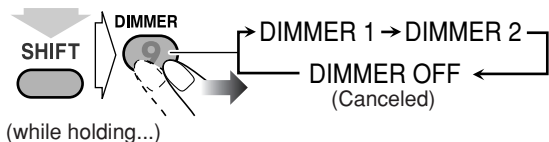
- 3 Adjust the parameter.



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

To erase the VFP screen, press VFP again.

Changing the Display Brightness



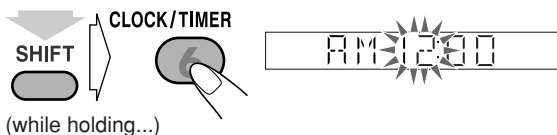
DIMMER 1	Dims the display.
DIMMER 2	Dims the display more than DIMMER 1.

Setting the Clock

Without setting the built-in clock, you cannot use any timers except the Sleep timer.

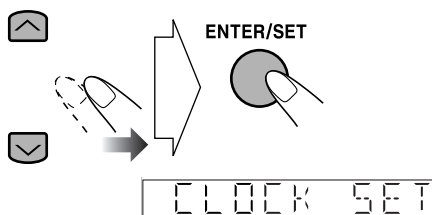
- To exit from the clock setting, press CLOCK/TIMER as required.
- To correct a misentry during the process, press CANCEL while holding SHIFT. You can return to the previous step.

- 1 Activate clock setting mode.



- If you have already adjusted the clock before, press the button repeatedly until the clock time starts flashing.

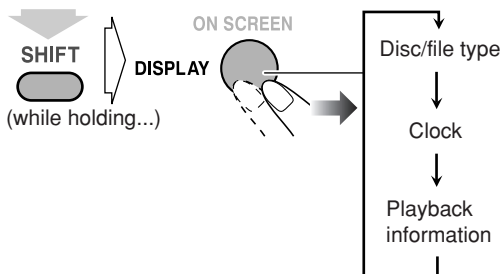
- 2 Adjust the hour, then minute.



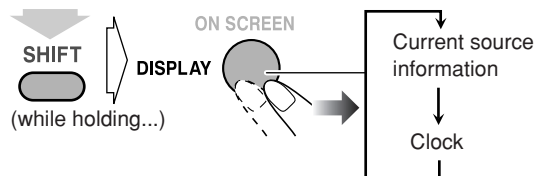
Now the built-in clock starts working.

Changing the display information

For "DVD/CD" and "USB MEMORY":

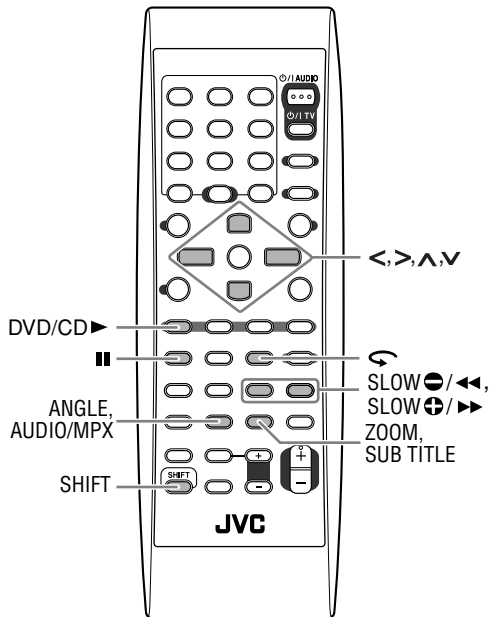


For "TAPE," "TUNER FM," "TUNER AM" and "AUX":



Unique Video Disc/File Operations

Remote Control



Selecting the Audio Track



For DVD Video: While playing back a chapter containing audio languages, you can select the language to listen to.

For DVD-VR/SVCD/VCD: While playing back a chapter/track, you can select the audio channel to play.

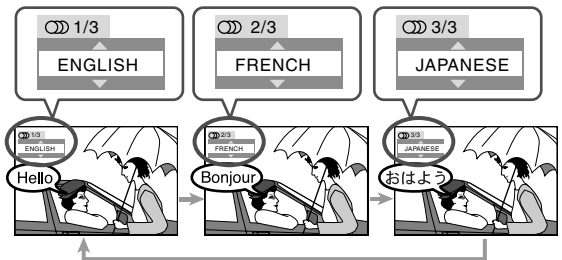
- You can also select the audio track using the on-screen bar (see page 24).

ANGLE AUDIO/MPX



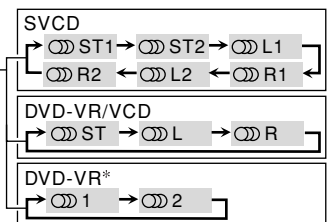
While playing DVD Video...

Ex.:



While playing a DVD-VR, SVCD or VCD...

ANGLE AUDIO/MPX



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.

* Example: when two multi-channel streams are recorded.

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

Selecting the Subtitle Language

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

For DVD-VR: While playing, you can turn the subtitle on or off.

For SVCD: While playing, the SUB TITLE button functions even if no subtitles are recorded on the disc.

- You can also select the subtitle language using the on-screen bar (see page 24).

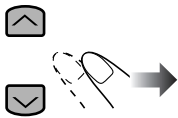
While playing a DVD Video...

1 Display the subtitle selection window.

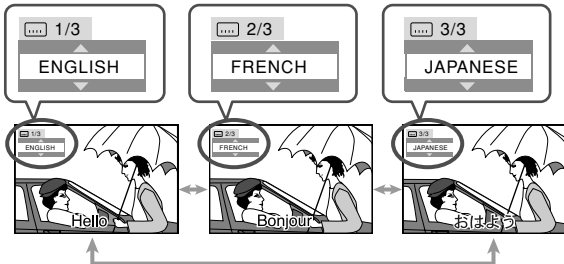
ZOOM
SUB TITLE



2 Select the subtitle language.

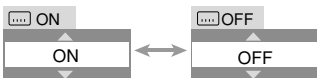


Ex.:



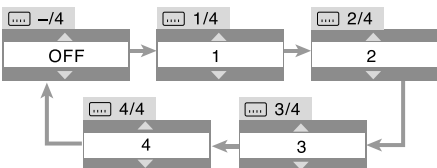
While playing a DVD-VR...

ZOOM
SUB TITLE



While playing an SVCD...

ZOOM
SUB TITLE

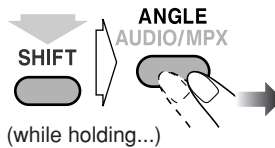


Selecting the View Angle

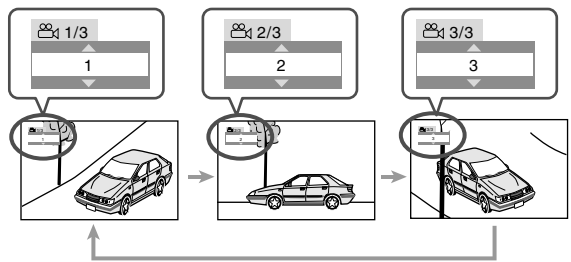
For DVD Video only: While playing back a chapter containing multi-view angles, you can view the same scene from different angles.

- You can also select the view angle using the on-screen bar (see page 24).

While playing...



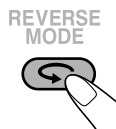
Ex.:



Reviewing the Playback Quickly

For DVD Video/DVD-VR only: You can move back the playback position by 10 seconds (only within the same title)—Glance Back.

While playing...

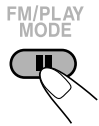


Special Picture Playback

INFO

Pause playback

While playing...



Playback pauses.

To resume normal playback, press DVD/CD ► or USB MEMORY ►.

Frame-by-frame playback

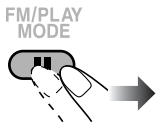
• This function is not available for ASF file.

1 While playing...



Playback pauses.

2 Advance the still picture frame by frame.



To resume normal playback, press DVD/CD ► or USB MEMORY ►.

Slow-motion playback

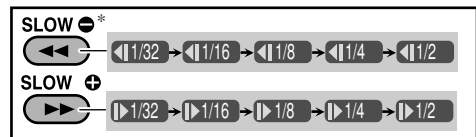
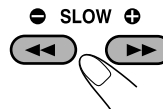
• This function is available only for moving picture files except MPEG-1/MPEG-2/ASF.

1 While playing...



Still picture appears.

2 Start slow-motion playback.



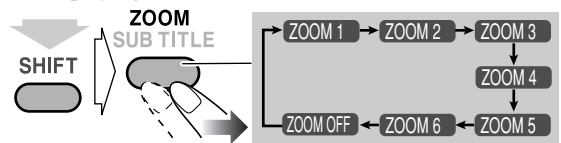
*Only for DVD Video.

To resume normal playback, press DVD/CD ►.

Zoom

• For JPEG/ASF files, see page 28.

While playing...



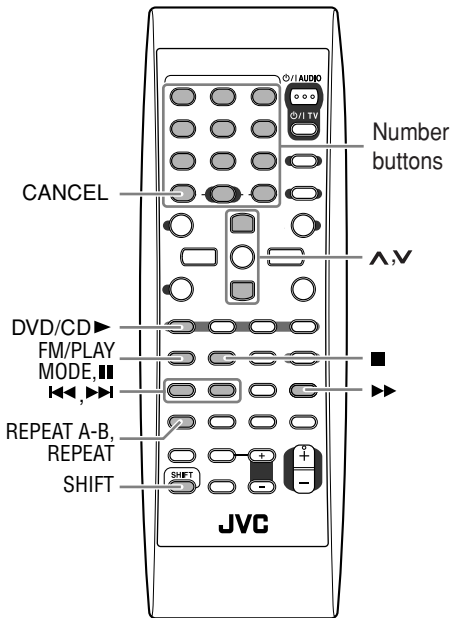
As the number increases, magnification also increases.

• You can move the zoomed-in area by pressing <, >, ^, v.

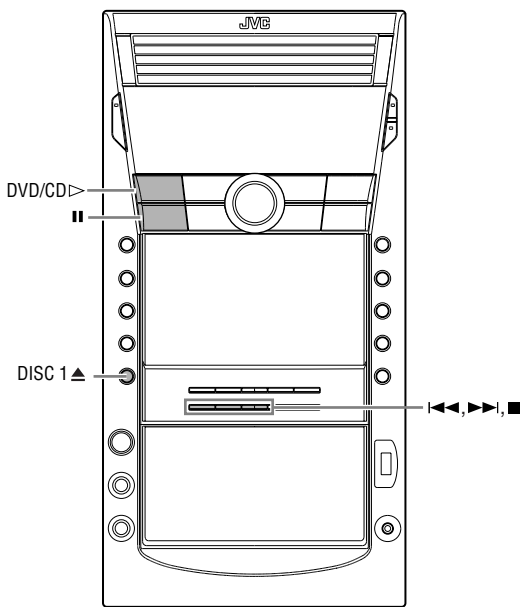
To cancel Zoom, press ZOOM repeatedly until “ZOOM OFF” appears on the TV screen.

Advanced Playback Operations

Remote Control



Main unit



Programming the Playing Order

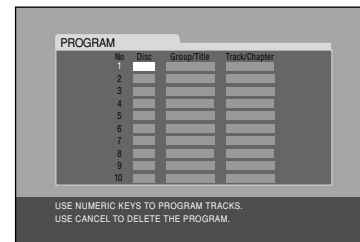
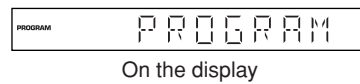
—Program Play



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

- Program Play cannot be used for files in a USB mass storage class device, Video files/JPEG files on a disc and DVD-VR.

1 Before starting playback, activate Program Play.



2 Select chapters/tracks/files you want for Program Play.

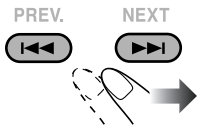
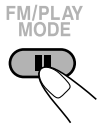
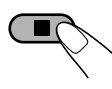
- ① Select a disc number.
 - ② For DVDs and Audio files only: Select a group/title number.
 - ③ Select a track/chapter number.
- To select a number, see “How to select a number” on page 8.

3 Repeat step 2 above until you complete your program.

4 Start playback.





Playback starts in the order you have programmed.

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

* Resume does not work for Program Play.

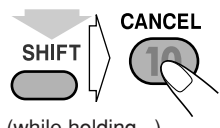
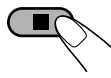
To check the programmed contents

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:
 (while holding...)	
To add steps in the program: Repeat step 2 on page 20.	

To exit from Program Play

Before or after playback...

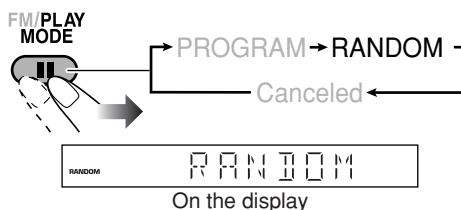


Playing at Random—Random Play

You can play the contents of all the loaded discs at random.

- Random Play cannot be used for files in a USB mass storage class device, Video files/JPEG files on a disc, DVD-VR and some DVDs.

1 Before starting playback, activate Random Play.



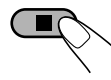


2 Start playback.

DVD/CD



Playback of the current disc starts in a random order. When all chapters/tracks on the current disc are played, playback of the next disc starts. Random Play ends when all loaded discs are played.

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

To exit from Random Play

Before or after playback...



Playing Repeatedly—Repeat Play

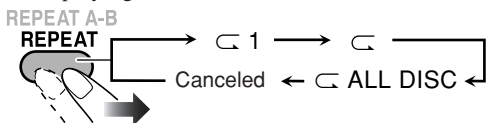
You can repeat playback.

- You can also select the repeat mode using the on-screen bar (except when playing back AV files or JPEG files). For on-screen operations, see page 25.
- For Video file/JPEG file and DVD-VR, see page 28.
- The indicator(s) lights on the display as follows to indicate the current repeat mode.

Repeat Play

• For DVD Video:

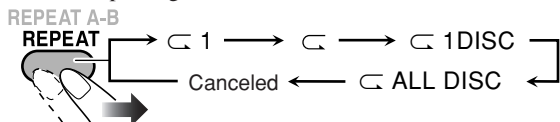
While playing...



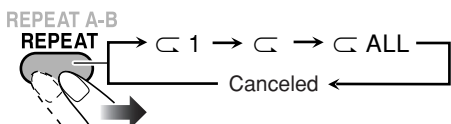
• For Audio files (MP3/WMA/WAV):

While playing or before playback...

When repeating Audio files on disc:

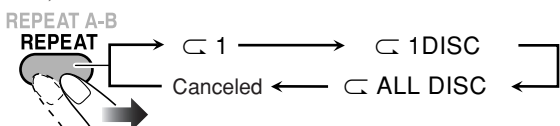


When repeating Audio files in a USB mass storage class device:



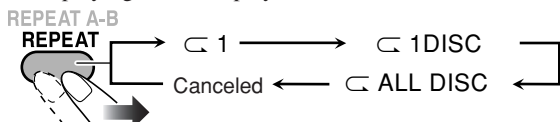
• For CD/SVCD/VCD:

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



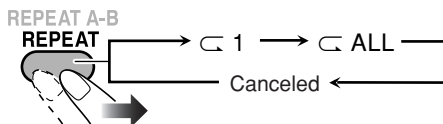
• For Random Play:






While playing or before playback...



• For Program Play:

While playing or before playback...



 1	Repeats the current chapter/track/file.
	Repeats the current title/group.
 1 DISC*	Repeats the current disc.
 ALL DISC*	Repeats all discs.
 ALL	Repeats all files in a USB mass storage class device or all programmed chapters/tracks/files.

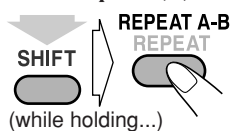
*These modes may not work correctly for DVDs.

A-B Repeat

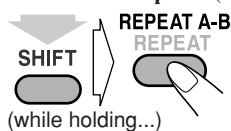
You can repeat playback of a desired portion by specifying the beginning (point A) and the ending (point B).

- A-B Repeat cannot be used for AV files and some DVDs.

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



2 Select the end point (B).



- You can search for the end point using the  button.

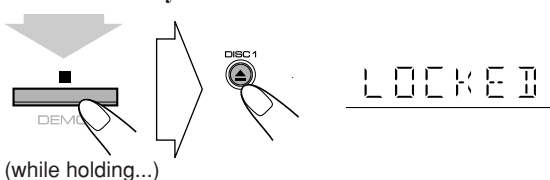
To cancel A-B Repeat, press REPEAT A-B again.

- A-B Repeat will also be canceled when you stop play or skip the chapter or track.

Prohibiting Disc Ejection—Child Lock

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

While on standby...



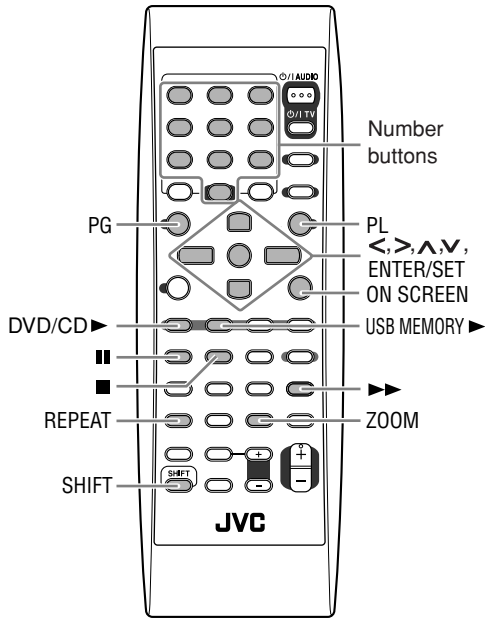
(while holding...)

To cancel the prohibition, repeat the same procedure.

“UNLOCKED” appears on the display.

On-Screen Operations

Remote control

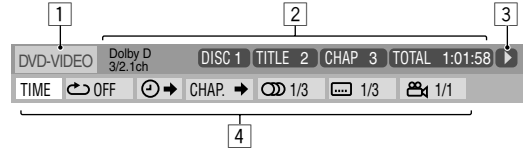


On-screen Bar Information

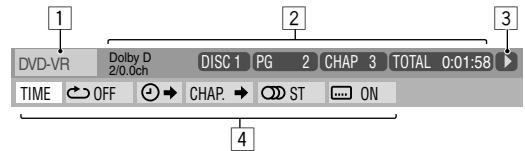
You can check the playback information and use some functions through the on-screen bar (except when playing back Audio files or JPEG files).

On-screen bars

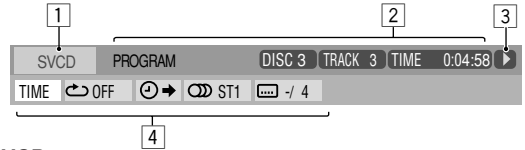
DVD Video



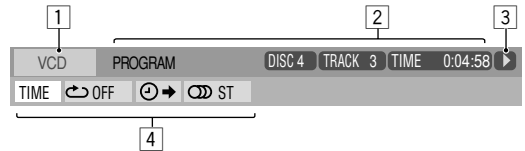
DVD-VR



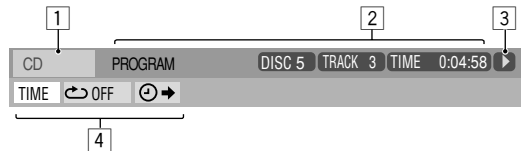
SVCD



VCD



CD



Video file on a disc—MPEG-1/MPEG-2/ASF file



Video file in a USB mass storage class device—MPEG-1/MPEG-2/ASF file



1 Disc type/source type

2 Playback information

Indication Meanings

Dolby D/
DTS/LPCM Audio format

3/2.1 ch/
2/0.0 ch Channel number

PROGRAM/
RANDOM Current play mode

DISC 1 Current disc

TITLE 2 Current title

CHAP 3 Current chapter

PG 2 Current program

PL 2 Current play list

TOTAL 1:25:58 Time indications

3 Playback conditions

Indication Meanings

Playback

Forward/Reverse search

Forward/Reverse slow-motion

Pause

Stop

4 Operation icons (on the pull-down menu)

Indication Meanings

Select to change the time indication (see also page 25).

Select to repeat playback (see also page 25).

Select for time search (see also page 26).

Select for chapter search (see also page 26).

Select to change the audio language or channel (see also page 17).

Select to change subtitle language (see also page 18).

Select to change view angle (see also page 18).

5 Repeat Play setting for video files (See also page 28)

Operations Using the

On-screen Bar

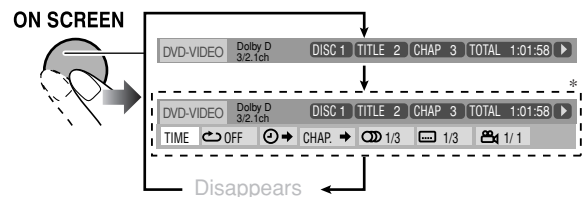


Basic operation procedures through the on-screen bar are as follows:

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.



* This does not appear for Video files.

2 Select (highlight) the item you want.

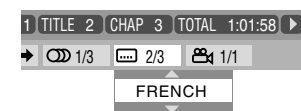
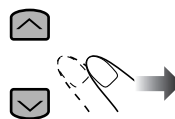


3 Display the pop-up window.

ENTER/SET



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



5 Finish the setting.

ENTER/SET Pop-up window disappears.



To erase the on-screen bar, press ON SCREEN again.

To change the time information

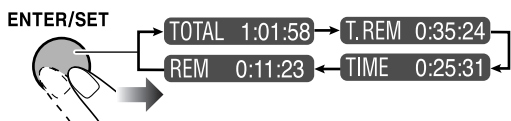
You can change the time information in the on-screen bar and the display window on the main unit.

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 time of the current disc/title.
TIME*	Elapsed playing time of the current chapter/track.
REM*	Remaining time of the current chapter/track.

*Not selectable for DVD-VR.

Repeat Play

- For Audio files, see also page 22.
- For Video files and JPEG file, see page 28.

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

- All discs except DVD: Repeat Play can be selected before starting playback.

2 Select .

3 Display the pop-up window.



4 Select the repeat mode you want.

ALL	Repeats all discs or all programmed tracks.
A-B	Repeats a desired portion (see below).
TITLE	Repeats the current title.
DISC	Repeats the disc (except for DVD).
CHAPTER	Repeats the current chapter.
TRACK*	Repeats the current track.
PG	Repeats the current program (for DVD-VR only). See also page 28.
PL	Repeats the current play list (for DVD-VR only). See also page 28.
OFF	Cancels Repeat Play.

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

5 Finish the setting.

ENTER/SET Pop-up window disappears.



A-B Repeat

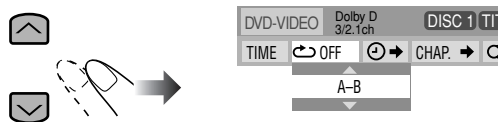
1 While playing a disc, display the on-screen bar with the pull-down menu.

2 Select .

3 Display the pop-up window.



4 Select "A-B."



5 Select the start point (A).

ENTER/SET



- After selecting the starting point (A), you can search for the end point using .

6 Select the end point (B).

ENTER/SET



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

To cancel A-B Repeat, repeat steps 1 to 3, and select “OFF” in step 4.

Time Search

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

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

- All discs except DVD: Time Search can be used before starting playback.

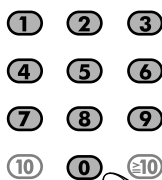
2 Select .

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 < to erase the last entry.

5 Finish the setting.

ENTER/SET



The System starts playing from the specified time.

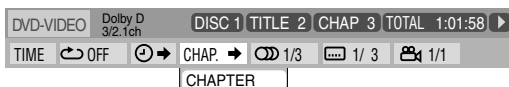
Chapter Search

For DVD Video/DVD-VR only: You can search for the chapter number to play.

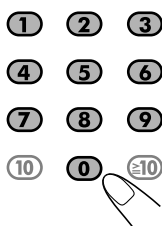
1 While playing a disc, display the on-screen bar with the pull-down menu.

2 Select .

3 Display the pop-up window.



4 Enter the desired chapter number.



Examples:

To select 5, press 5.

To select 15, press 1, then 5.

To select 30, press 3, then 0.

- To correct a misentry, press the number buttons until the desired number is shown in the pop-up window.

5 Finish the setting.

ENTER/SET



The System starts playing the searched chapter.

Operations Using the Control

Screen



For DVD-VR, JPEG file and AV files: You can search for and play the desired items through the control screen.

Control screen for DVD-VR

The control screen is superimposed on the TV screen when you call up Original Program (PG) or Play List (PL) screens.

To select playback type

To select the Original Program:	To select the Play List:
<p>TOP MENU/PG</p>	<p>MENU/PL</p>

When Original Program screen is superimposed.

ORIGINAL PROGRAM					
No	Date	Ch	Time	Title	
1	04/25/07	4ch	7:00 PM	JVC DVD World 2004	
2	05/17/07	8ch	10:30 AM		
3	05/22/07	8ch	5:00 PM	Music Festival	
4	05/26/07	L-1	1:19 PM	children 001	
5	06/20/07	4ch	10:00 PM		
6	06/25/07	L-1	8:23 AM	children 002	

When Play List screen is superimposed.

PLAY LIST					
No	Date	Chap	Length	Title	
1	05/25/07	001	1:03:16	My JVC World	
2	06/17/07	005	1:35:25		
3	06/20/07	003	0:10:23	Favorite music	
4	06/25/07	001	0:07:19	children001-002	

- ① Program/Play list number
- ② Recording date
- ③ Recording source (TV station, the input terminal of the recording equipment, etc.)
- ④ Start time of recording
- ⑤ Title of the program/play list*
- ⑥ Highlight bar (current selection)
- ⑦ Creating date of play lists
- ⑧ Number of chapters
- ⑨ Playback time

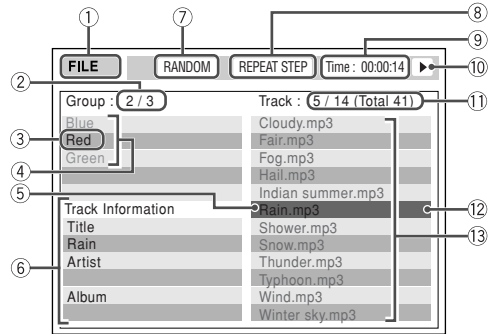
*The title of the original program or play list may not be displayed depending on the recording equipment.

To remove the control screen, press ENTER/SET.

Control screen for AV files/JPEG files

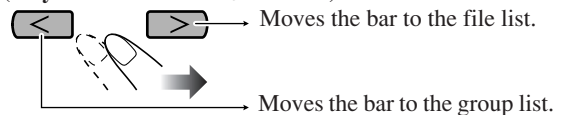
The control screen automatically appears on the TV screen when the System detects Audio files on the loaded disc or connected USB mass storage class device. (For Video files/JPEG files; it appears when playback is stopped.)

Ex.: While playing an MP3 file on a disc.



- ① Current source
FILE: Current source is "DVD/CD."
USB: Current source is "USB."
- ② Current group number/total group number
- ③ Current group
- ④ Group list
- ⑤ Current file
- ⑥ File information (only for MP3/WMA/WAV file)
- ⑦ Play mode information (RANDOM or PROGRAM, not applicable for USB mass storage class device.)
- ⑧ Repeat Play setting
- ⑨ Elapsed playing time of the current file (except JPEG files)
- ⑩ Operation Status icon
- ⑪ Current file number/total number of files in the current group (total number of files on the current disc/USB mass storage class device)
- ⑫ Highlight bar (Current selection)
- ⑬ File list
 - If different types of files (Audio files, Video files and Still picture files) are recorded on a disc/USB mass storage class device, select the file type to play (see page 37).

To move the highlight bar between group list and file list (only for AV files and JPEG file):




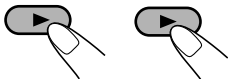

To select an item in the list:



Move the highlight bar to the desired item.

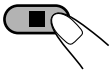
- If you move the highlight bar while playing back DVD-VR or Audio files, the selected item starts playback automatically.

To start playback

For JPEG files:	
ENTER/SET 	The selected file (still picture) is displayed until you change it.
DVD/CD USB MEMORY 	Slide-show playback starts. Each file (still picture) is shown on the screen for a few seconds, then changes one after another.
For the other files:	
ENTER/SET 	Playback starts with the selected chapter/file. <ul style="list-style-type: none"> Pressing DVD/CD ► or USB MEMORY ► also starts playback.

- Once you start viewing a JPEG file or Video file, the control screen disappears.
- To cancel slide-show for JPEG file, and display the current still picture, press **II**.

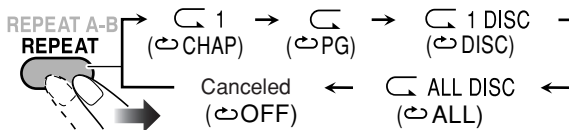
To stop playback



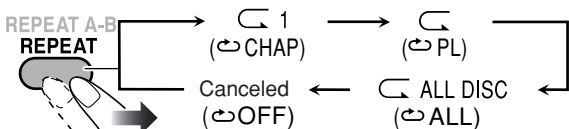
To repeat chapter/program/play list for DVD-VR

While playing or before starting playback...

For Original Program



For Play List



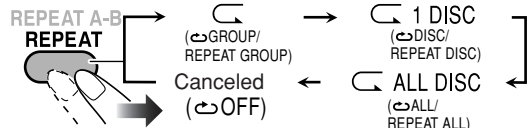
1*	Repeats the current chapter.
*	Repeats the current program/play list.
1 DISC*	Repeats all programs on the current disc.
ALL DISC	Repeats all loaded discs.

* Not available before starting playback.

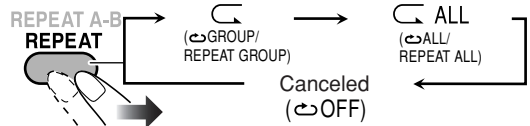
To repeat slide-show for JPEG files

While playing or before starting playback...

- When repeating JPEG file on disc:



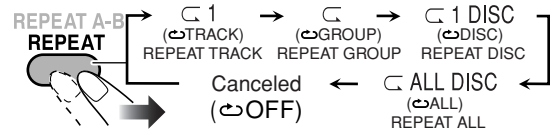
- When repeating JPEG files in a USB mass storage class device:



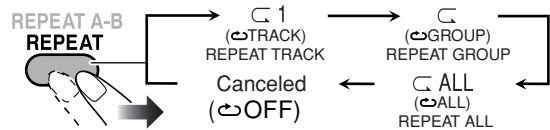
To repeat play for Video files

While playing or before starting playback...

- When repeating Video files on disc:



- When repeating Video files in a USB mass storage class device:



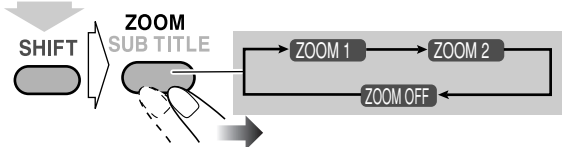
1	Repeats the current file.
1	Repeats the current group.
1 DISC	Repeats all files on the current disc.
ALL	Repeats all files in the USB mass storage class device.
ALL DISC	Repeats all loaded discs.

- For Repeat Play of Audio file, see page 22.

To zoom in the JPEG/ASF file

While playing...

- During slide-show for JPEG file, press **II** to display the still picture, then...



(while holding...)

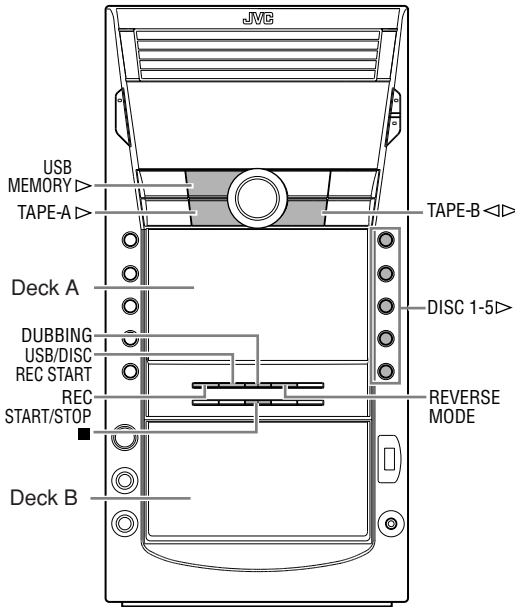
As the number increases, magnification also increases.

- You can move the zoomed-in area by pressing **<**, **>**, **^**, **v**.

To cancel Zoom, press ZOOM repeatedly until "ZOOM OFF" appears on the TV screen.

Recording Operations

Main unit



IMPORTANT:

It should be noted that it may be unlawful to rerecord pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable program and in any literary, dramatic, musical, or artistic work embodied therein.

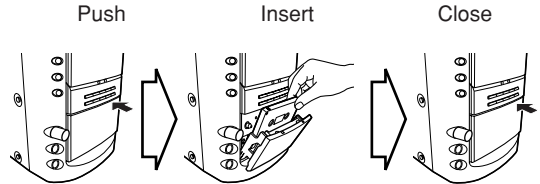
Recording onto a Tape



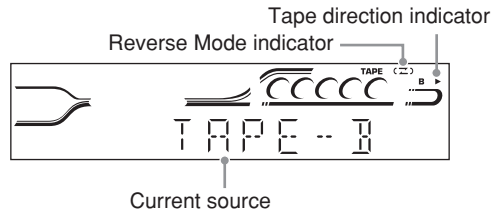
You can use type I tapes for recording.

- To play a tape, see page 12.

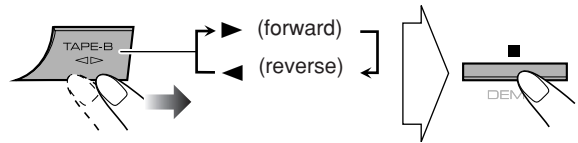
1 Insert a recordable cassette into deck B.



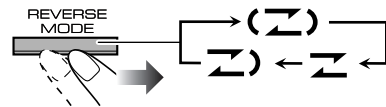
2 Check the tape running direction and Reverse Mode settings on the display.



To change the direction



Change the Reverse Mode if necessary



	To record on both sides.
	<ul style="list-style-type: none"> • When using Reverse Mode, start recording in the forward (▶) direction.
	To record on only one side.

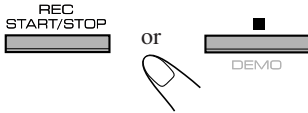
3 Start playing the source—"TUNER FM," "TUNER AM," "DVD/CD," "USB," "TAPE-A" or "AUX."

- When recording from a disc/USB mass storage class device, you can also use "Synchronized Recording" (see page 30).
- When recording from deck A, you can also use "Dubbing" (see "Dubbing Tapes" on page 30).

4 Start recording.



To stop recording

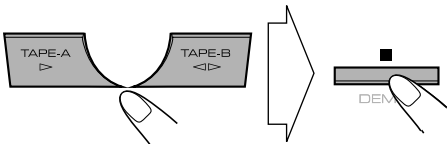


Dubbing Tapes



You can record a tape from deck A to deck B.

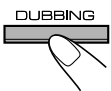
1 Change the source to “TAPE.”



2 Insert the source cassette in deck A, and a recordable cassette in deck B.

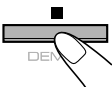
3 Check the tape running direction on the display. See step 2 of “Recording onto a Tape” on page 29.

4 Start dubbing.



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

To stop dubbing



Synchronized Recording



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

- This function is available only for CD/VCD/SVCD/DVD Video and Audio files.
- Not available with Random Play.

1 Load a disc or connect a USB mass storage class device and insert a recordable cassette.

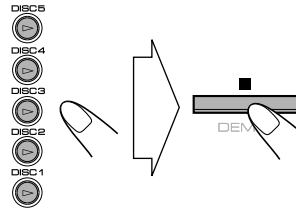
2 Check the tape running direction and Reverse Mode settings on the display.

- See step 2 of “Recording onto a Tape” on page 29.

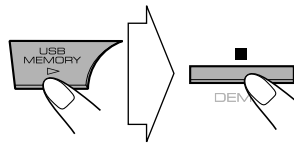
3 Select the source you want to record.

When recording from the disc:

- Select the disc number you want to start recording from.



When recording from the USB mass storage class device:



For recording desired tracks/files from discs:

You can program tracks/files to record in your preferred order.

Select Program Play (and make a program; see page 20) before starting playback.

4 Start recording.



Playback and recording start from the first track/file.

- The System automatically creates 4-second blank between the tunes recorded on the tapes.
- When either playback or recording ends, both playback and recording stop at the same time.

To record only your favorite track/file —One Track Recording

You can specify track/file to record on the tape while listening to a disc/USB mass storage class device.

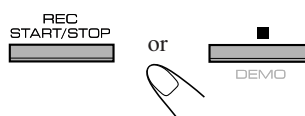
- This function is available only for CD/VCD/SVCD and Audio files (without PBC for SVCD/VCD).
- Not available with Program Play and Random Play.

While the track/file you want to record is playing...



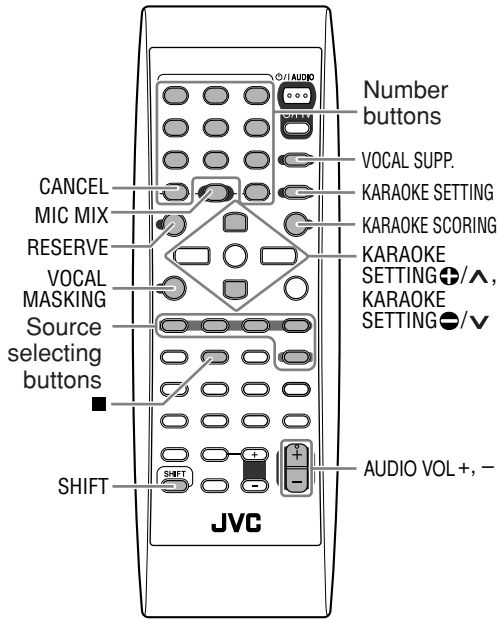
Playback returns to the beginning of that track/file and the track/file is recorded on the tape. After recording, both playback and recording stop.

To cancel while recording

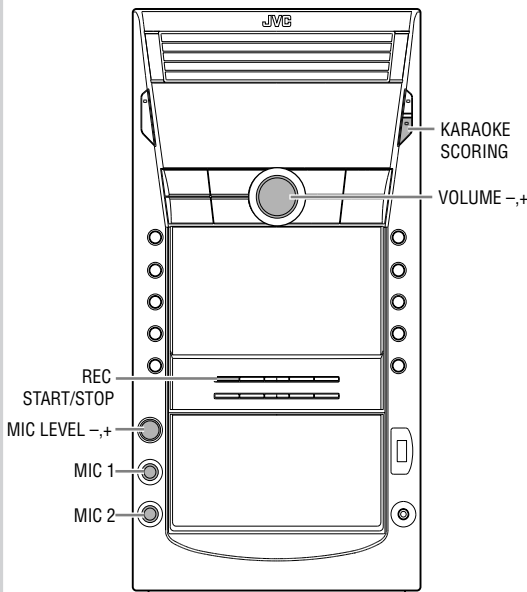


Enjoying Karaoke

Remote control



Main unit



DO NOT keep the microphones connected while they are not in use.

IMPORTANT

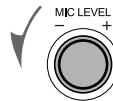
- Always set MIC LEVEL to “0” when connecting or disconnecting the microphone.
- MIC LEVEL adjustment is valid for both microphones connected to the MIC 1 and MIC 2 jacks.
- MIC LEVEL and MICVOL mentioned in this Instruction Book carry the same meaning.

Singing Along (Karaoke)

You can enjoy singing along (Karaoke) by using one or two microphones.

- By pressing REC START/STOP, you can record your singing-along.

1 Turn MIC LEVEL to “0”.



2 Connect the microphone(s) (not supplied) to the MIC 1 and/or MIC 2 jack.

Mic Mixing will be automatically activated.

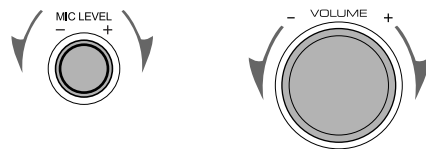


3 Start playing a source—“TUNER FM,” “TUNER AM,” “DVD/CD,” “USB,” “TAPE-A,” “TAPE-B” or “AUX.”

- For Karaoke discs: Select a desired audio channel. See “Selecting the Audio Track” on page 17.

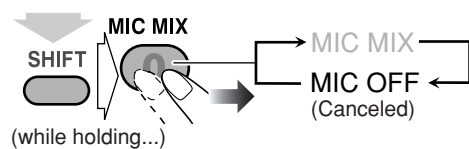
4 Sing into the microphone.

5 Adjust the MIC LEVEL and VOLUME.



To use microphone only, select “DVD/CD” or “USB” in step 3, but do not start playback.

To cancel the Mic Mixing



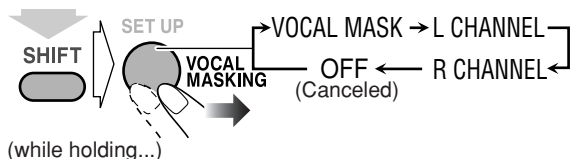
Adjusting the Sound Track for Karaoke



You can adjust the sound track for Karaoke.

For stereo (2-channel) source: By selecting VOCAL MASK, you can reduce the lead vocal—Vocal Masking.

For Karaoke disc: By selecting L CHANNEL or R CHANNEL, you can select the audio channel to play. While Mic Mixing is activated...



VOCAL MASK	Reduce the vocal from stereo (2-channel) source.
L CHANNEL	Reproduces only the left audio channel.
R CHANNEL	Reproduces only the right audio channel.

To return to normal playback, select “OFF.”

To return to normal playback temporarily

This function allows you to recover the lead vocal temporarily for your reference.

While Vocal Masking, L CHANNEL or R CHANNEL is activated...



The vocal or stereo effect will be restored temporarily.

To return to Vocal Masking, L CHANNEL or R CHANNEL, press the same button again.

Scoring Your Karaoke Skill



This System can score your Karaoke skill by comparing your singing along with the vocal on the playback source.

- This function is available only for disc/USB mass storage class device playback.

- It is recommended to select the soundtrack as follows (see page 17):

For Karaoke DVD Video: Select a sound track with vocal.

For Karaoke SVCD/VCD: Select “ST,” “ST1” or “ST2.”

- After selecting a sound track, select VOCAL MASK, L CHANNEL or R CHANNEL using the VOCAL MASKING button (see above).

1 Select “DVD/CD” or “USB” as the source.



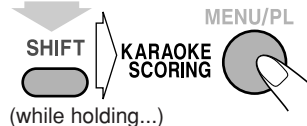
2 Connect the microphone(s) (not supplied) to the MIC 1 and/or MIC 2 jack.

Mic Mixing will be activated.

- If a microphone is already connected and Mic Mixing is not activated, use the MIC MIX button to reactivate Mic Mixing (see page 31).

3 Activate Karaoke Scoring.

“KSCORE ON” appears on the display.



- During Karaoke Scoring, scoring will start when playback is started.
- To cancel Karaoke Scoring before playback, press the same button again. “KSCORE OFF” appears on the display.

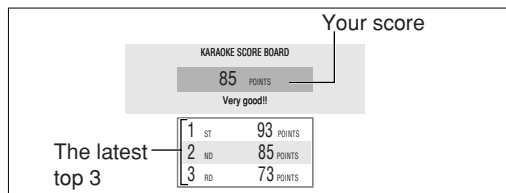
4 Start playback and sing into the microphone.

Karaoke Scoring starts.

- Adjust echo level and key if you want. (See “To apply an echo to your voice” and “To adjust the key” on page 33.)
- When you press ◀◀ or ▶▶, Karaoke Scoring is canceled and restarts from the selected track/file.

After the song ends, playback stops and the score board appears on the TV screen with fanfare.

Ex.:



- When you press ■, Karaoke Scoring is canceled. When playback starts again, Karaoke Scoring restarts.
- If you do not sing for about 2 minutes after Karaoke Scoring starts, Karaoke Scoring is canceled. If you sing a song too quietly for the System to detect your voice for about 2 minutes after Karaoke Scoring starts, Karaoke Scoring may be canceled.
- To obtain a correct scoring result, it is recommended to sing the song completely. If the singing time is less than 3 minutes, the scoring result may be “0” or incorrect.

To stop the playback in the middle of the song, press ■. Karaoke Scoring is not canceled and your singing along is scored until that time.

To activate Karaoke Scoring in the middle of the song, press KARAOKE SCORING. “SCORING” and “START” appear on the display, then scoring starts from that point.

To deactivate Karaoke Scoring in the same song during playback, press KARAOKE SCORING. “SCORING” and “CANCEL” appear on the display.

- Once you deactivate Karaoke Scoring in the same song during playback, pressing KARAOKE SCORING switches “KSCORE ON” and “KSCORE OFF” alternately.

- When you reactivate Karaoke Scoring in the same song during playback and “KSCORE ON” is selected, scoring starts from the next track.

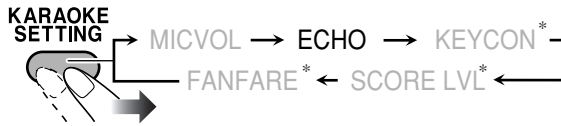
Changing the Karaoke Setting

You can change five settings for Karaoke.

- To escape from Karaoke setting, wait for several seconds after the setting is done.

To apply an echo to your voice

1



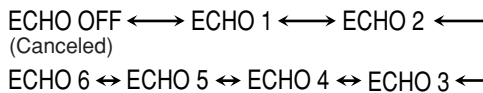
* Appears only when “DVD/CD” or “USB” is selected as the source with Mic Mixing activated.

2 Adjust the echo level.

KARAOKE SETTING ⊕



KARAOKE SETTING ⊖



- As the number increases, echo level also increases.

To adjust the key

- This function is available for disc/USB mass storage class device playback.
- This function is available only for CD/VCD/SVCD/DVD Video and Audio files.
- Key adjustment will be canceled when you deactivate Mic Mixing, or select another disc, track or file.

1 Select “DVD/CD” or “USB” as the source.

2 Connect the microphone(s) (not supplied) to the MIC 1 and/or MIC 2 jack.

Mic Mixing will be automatically activated.

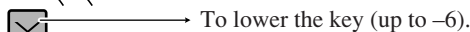
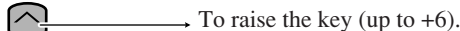
- If a microphone is already connected and Mic Mixing is not activated, use the MIC MIX button to reactivate Mic Mixing (see page 31).

3 Start playback, then...



4 Adjust the key.

KARAOKE SETTING ⊕



KARAOKE SETTING ⊖

To return to normal key, select “0.”

To change the scoring level

You can change the scoring level of Karaoke Scoring.

- This function is available only for disc/USB mass storage class device playback.

1 Select “DVD/CD” or “USB” as the source.

2 Connect the microphone(s) (not supplied) to the MIC 1 and/or MIC 2 jack.

Mic Mixing will be automatically activated.

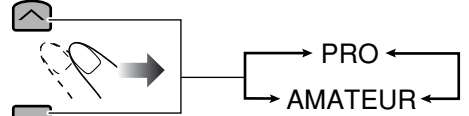
- If a microphone is already connected and Mic Mixing is not activated, use the MIC MIX button to reactivate Mic Mixing (see page 31).

3



4 Select the scoring level setting.

KARAOKE SETTING ⊕



KARAOKE SETTING ⊖

PRO Scoring level is strict.

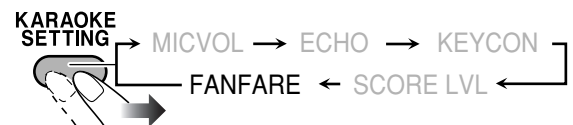
AMATEUR Scoring level is lenient.

To turn on/off the fanfare

You can turn the fanfare on or off for Karaoke Scoring.

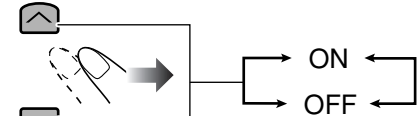
- This function is available only for disc/USB mass storage class device playback.

1



2 Select the fanfare setting.

KARAOKE SETTING ⊕

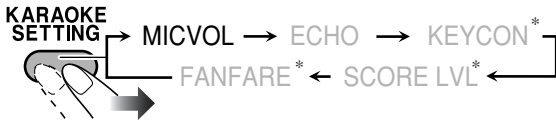


KARAOKE SETTING ⊖

To change the mic volume



1



* Appears only when “DVD/CD” or “USB” is selected as the source with Mic Mixing activated.

2 Select the volume level.

KARAOKE SETTING ⬆



KARAOKE SETTING ⬇

• The mic volume level can be adjusted in 16 steps (MICVOL 0 – 15).

Reserving Karaoke Songs

—Karaoke Program Play

INFO

You can determine the playback order of the titles, chapters, tracks or files on the disc player. You can program up to 12 steps.

• This function is not available for files in a USB mass storage class device.

1 Select “DVD/CD” as the source.

2 Turn the MIC LEVEL to “0”.

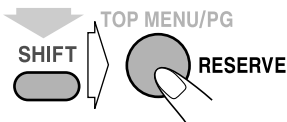


3 Connect the microphone(s) (not supplied) to the MIC1 or MIC2 jack.

Mic Mixing will be automatically activated.

• If a microphone is already connected and Mic Mixing is not activated, use the MIC MIX button to reactivate Mic Mixing (see page 31).

4 Activate Karaoke Program Play.



(while holding...)

No	Disc	Gr/Tt	Tr/Chap
1	■		
2			
3			
4			
5			

On the TV screen

• The PROGRAM indicator flashes during this mode.

5 Select songs you want for Karaoke Program Play.

Press the number buttons to select a song in the following order.

- ① Select a disc.
- ② Select a title/group.
- ③ Select a chapter/track/file.

① ② ③

④ ⑤ ⑥

⑦ ⑧ ⑨

⑩ 0 ≤10

• To select a number, see “How to select a number” on page 8.

• To cancel the procedure, press RESERVE while holding SHIFT. The PROGRAM indicator disappears.

6 Start playback.

DVD/CD



Karaoke Reserve screen disappears and playback starts in the order you have programmed.

• For the Karaoke Program Play with Karaoke

Scoring: Each time the song ends, playback stops and the score board appears. Press DVD/CD ► to start playback of the next track.

7 Sing into the microphone.

8 Adjust the MIC LEVEL and VOLUME.

To check the programmed contents



(while holding...)

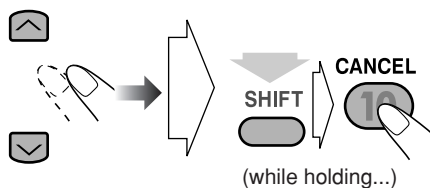
Karaoke Reserve screen appears.

• You cannot display Karaoke Reserve screen while Karaoke Scoring is in use.

To modify the program

While Karaoke Reserve screen is shown on the TV...

To erase the unwanted step:



(while holding...)

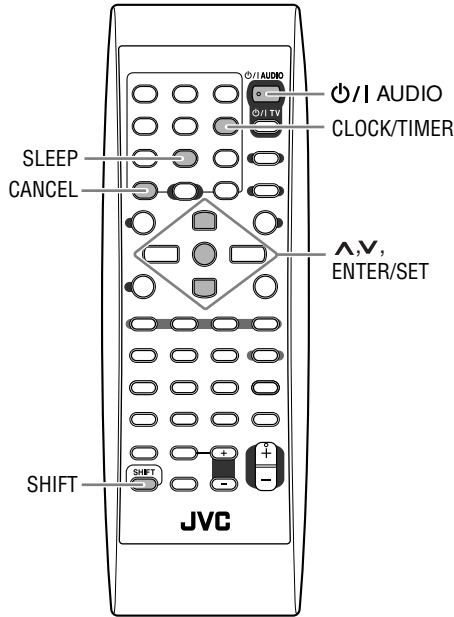
To erase the entire program, repeat the procedure.

To add steps in the program:

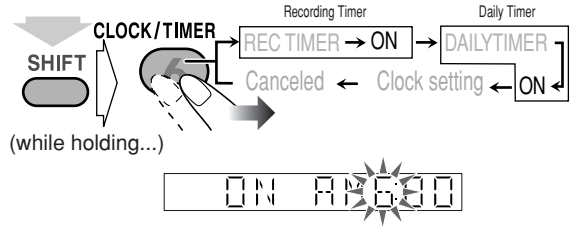
Repeat step 5.

Timer Operations

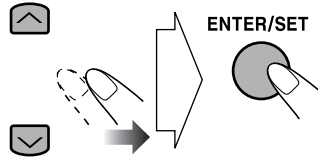
Remote control



1 Select one of the timer setting modes—ON for Recording Timer or Daily Timer.



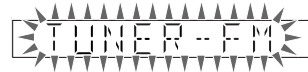
2 Make the timer setting as you want.



Repeat the procedure for the following setting until finished.

- ① Set the hour then minute for on-time.
- ② Set the hour then minute for off-time.
- ③ For Recording Timer: Select the playback source—"TUNER-FM," "TUNER-AM" or "AUX."

For Daily Timer: Select the playback source—"TUNER-FM," "TUNER-AM," "DISC," "USB," "TAPE-A," "TAPE-B" or "AUX."



EX.: When "TUNER-FM" is selected.

- When you select "AUX" as the source, you also need to set the timer of the external component.
- ④ Select an item you want to play or record as follows.
 - "TUNER-FM" and "TUNER-AM": Preset station.
 - "DISC": Disc, group/title and track/file/chapter.
 - "USB": Group and file.
- ⑤ Select the volume level.
 - You can select the volume level ("VOLUME 0" – "VOLUME 30" and "VOLUME --"). If you select "VOLUME --," the volume is set to the last level when the System has been turned off.

After making the timer setting, "SET OK" appears and your setting items appear on the display one after another.

Setting the Timer



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

- You cannot activate Daily Timer and Recording Timer at the same time. (Activating either timer deactivates the other timer.)
- To correct a misentry during the process, press CANCEL while holding SHIFT. You can return to the previous step.

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

⏻/I AUDIO



How Recording Timer works

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

- Recording Timer starts working only when the System is turned off (on standby).

When the on-time comes

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

When the off-time comes

- The System stops recording, and turns off (on standby).
- The timer setting remains in memory until you change it.

How Daily Timer works

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

- Daily Timer starts working only when the System is turned off (on standby).

When the on-time comes

The System turns on, tunes in to the specified station or starts playing the specified source, and sets the volume level gradually to the preset level after about 30 seconds.

When the off-time comes

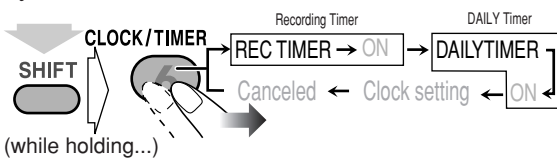
- The System stops playback, and turns off (standby).
- The timer setting remains in memory until you change it.

To turn off the Timer after the setting is done

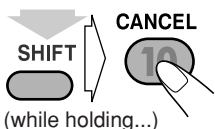
You can turn off the timer after it has been set.

- Since Daily Timer works at the same time everyday, you may need to cancel it on some particular days.

1 Select the timer (REC TIMER or DAILYTIMER) you want to cancel.



2 Turn off the selected timer.



- The timer indicator (⏻) goes off.

To turn on the timer again, repeat step 1 and press ENTER/SET in step 2.

Turning Off the Power Automatically



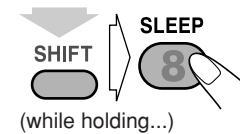
With Sleep Timer, you can fall asleep while listening to music.

1 Specify the time (in minutes).



2 Wait until the set time disappears.

To check the time remaining until the shut-off time

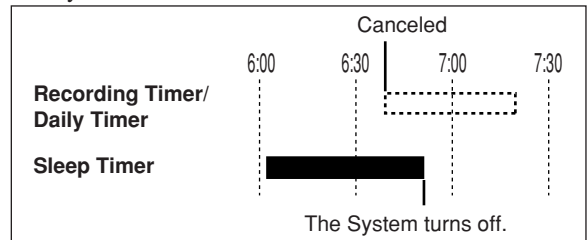


- If you press the button repeatedly, you can change the shut-off time.

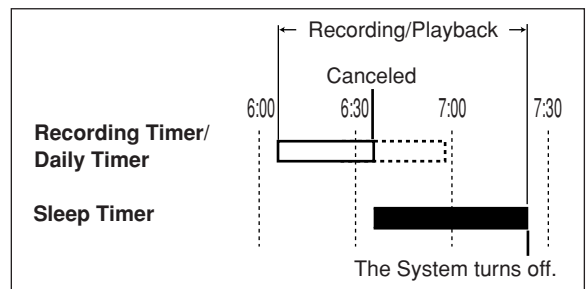
Timer Priority

If Timer settings overlap, the timers work as described below.

- Sleep Timer has priority over the Recording Timer and Daily Timer.



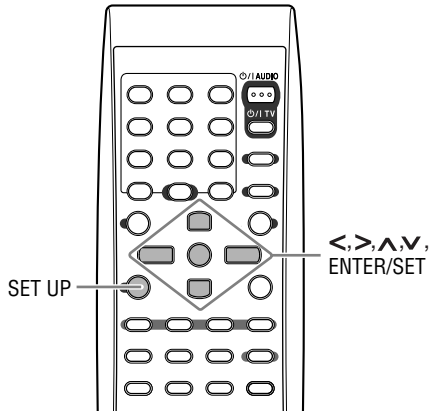
- In this case, Recording Timer/Daily Timer does not work.



- In this case, Recording Timer/Daily Timer is canceled. (If Sleep Timer shuts off the System earlier than the off time you have set for Recording Timer, recording stops when Sleep Timer shuts off the System.)

Setup Menu Operations

Remote Control

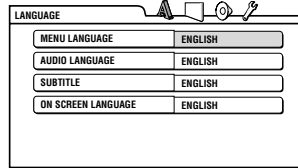


Basic Procedure

You can change the setting of the System.

- The setup menu can be used only when “DVD/CD” or “USB” is selected as the source.

1 Press SET UP while playback is stopped.



2 Press > (or <) to select the menu.

3 Press v (or ^) to select the item.

4 Press ENTER/SET.

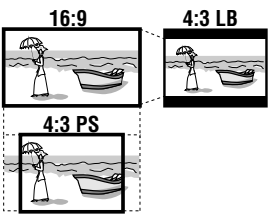
5 Press v (or ^) to select the options, then press ENTER/SET.

To erase a preference display, press SET UP.

LANGUAGE menu

Item	Contents
MENU LANGUAGE	You can select the initial menu language of DVD Video (see page 46).
AUDIO LANGUAGE	You can select the initial audio language of DVD Video (see page 46).
SUBTITLE	You can select the initial subtitle language of DVD Video (see page 46).
ON SCREEN LANGUAGE	You can select “ENGLISH,” “SPANISH,” or “FRENCH” as the on-screen language.

PICTURE menu

Item	Contents
MONITOR TYPE 	You can select the monitor type to match your TV when you play back picture recorded for wide-screen televisions. 16:9 NORMAL (Wide television screen): Select this when the aspect ratio of your wide TV is fixed to 16:9. 16:9 AUTO (Wide television screen): Select this when your TV is an ordinary wide TV. 4:3 LB (Letter Box conversion): For a conventional (4:3) TV. Displays a wide-screen picture to fit the width of the TV screen keeping the aspect ratio. 4:3 PS (Pan Scan conversion): For a conventional (4:3) TV. The picture is zoomed in to fill the screen vertically and the left and right sides of the picture are cut off.
PICTURE SOURCE	You can obtain optimal picture quality by selecting the type of the video source. AUTO: Normally, select this option. The System recognizes the picture type (film or video source) of the current picture according to its information. FILM: For a film source picture. VIDEO: For a video source picture.
SCREEN SAVER	You can set the screen saver function to ON or OFF . ON: The on-screen display becomes dark when no operation is done for about 5 minutes. OFF: To cancel the screen saver.
FILE TYPE	You can select a file type to play. AUDIO: To play Audio files. (MP3/WMA/WAV files.) STILL PICTURE: To play Still Picture files. (JPEG file.) VIDEO: To play Video files. (MPEG-1/MPEG-2/ASF files.)



AUDIO menu

Item	Contents
DIGITAL AUDIO OUTPUT	Set this item correctly when using the OPTICAL DIGITAL OUTPUT terminal on the rear. PCM ONLY: When connecting to audio equipment which is compatible with only linear PCM signals. DOLBY DIGITAL/PCM: When connecting to a Dolby Digital decoder or an amplifier with built-in Dolby Digital decoder. STREAM/PCM: When connecting to a DTS/MPEG Audio decoder or an amplifier with built-in DTS/MPEG Audio decoder.
DOWN MIX	This setting is effective for digital audio output if “DIGITAL AUDIO OUTPUT” is set to “PCM ONLY.” DOLBY SURROUND: Select this when connecting a surround decoder. STEREO: Select this when connecting a stereo receiver, MD player, TV, etc.
D. RANGE COMPRESSION	You can enjoy a powerful sound at a low volume level while playing Dolby Digital software. AUTO: Select to apply the compression only to multi-channel encoded audio (except for 1-channel and 2-channel sources.) ON: Select this to always apply the compression.

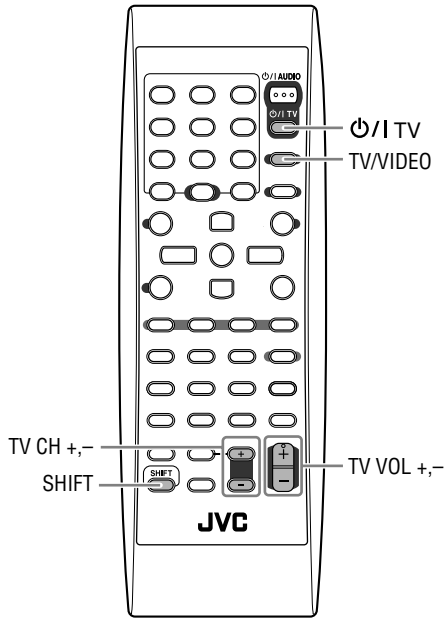


OTHERS menu

Item	Contents
RESUME	You can select Resume. ON: The System resumes playback from the position where playback has been stopped (not applicable for CD). OFF: Resume is deactivated.
ON SCREEN GUIDE	Activate or deactivate the on-screen guide. ON: Activate the on-screen guide. OFF: Deactivate the on-screen guide.

Operating the TV

Remote control



You can operate JVC's TV using the remote control supplied for this System.

To turn on or off the TV:	To select the input mode (either TV or VIDEO):
<p>Power/TV</p>	<p>SHIFT TV/VIDEO VOCAL SUPP.</p> <p>(while holding...)</p>
To adjust TV volume:	
<p>SHIFT TV VOL</p> <p>(while holding...)</p>	
To select the TV channel:	
<p>SHIFT TV CH</p> <p>(while holding...)</p>	

Additional Information

Learning More about This System ● ● ●

Connections (see pages 3 to 6)

Changing the Color System:


- If you play back an NTSC disc/file with the color system set to “PAL,” the disc/file will be reproduced using “PAL 60” format; however, if the TV does not support this format, the screen may not display properly.
- If you play back a PAL disc/file with the color system set to “NTSC,” you can watch the playback pictures, but the following symptoms may occur:
 - The items on the menu will be blurred, and be shown slightly shifted when highlighted.
 - The aspect ratio of the picture may differ from the original aspect ratio.
 - The picture movement is not smooth.

Daily Operations—Playback (see pages 8 to 12)

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 may be erased in a few days. If this happens, preset the stations again.

Playing Back a Disc/USB Mass Storage Class Device:

- When you change the source to “DVD/CD” or “USB,” it may take a while to activate the source.
- While the System is reading a disc, the source may not change to “USB” correctly. In this case, press ■, then reactivate “USB” as the source.
- On some discs/files, the actual operations may be different from what is explained in this manual, due to the programming and disc structure; such differences are not a malfunction of this System.
- For playback of files in the USB mass storage class device...
 - When connecting a USB mass storage class device, refer also to its manual.
 - Connect one USB mass storage class device to the System at a time. Do not use a USB hub.
 - You cannot charge any other USB device through the  (USB MEMORY) terminal of this System.
 - While playing back a file in a USB mass storage class device, do not disconnect the device. It may cause a malfunction of both the System and the device.
 - JVC bears no responsibility for any loss of data in the USB mass storage class device while using this System.
 - When connecting with a USB cable, use the cable whose length is less than 1 m (3.3 ft).
 - This System is compatible with USB 2.0 Full Speed.
- You can play back the following types of files in a USB mass storage class device (maximum data transfer rate: 2 Mbps):
 - Audio: MP3, WMA, WAV
 - Still picture: JPEG
 - Video: MPEG-1, MPEG-2, ASF
 - This System may not play back some files even though their formats are listed above.
- You cannot play back a file larger than 2 Gigabyte.
- When playing a file which has a high transfer rate, frames or sounds may be dropped during playback.
- This System cannot recognize a USB mass storage class device whose rating is other than 5 V and exceeds 500 mA.
- This System may not play back some USB mass storage class devices and does not support DRM (Digital Rights Management).
- It will take some time to start up a Digital Audio Player (DAP) larger than 1 Gigabyte.
- You cannot send any data to your USB mass storage class device from this System.
- For MP3/WMA/WAV playback...
 - MP3/WMA/WAV discs require a longer readout time than regular CDs. (It depends on the complexity of the group/file configuration.)
 - Some MP3/WMA/WAV files cannot be played back and will be skipped. This results from their recording processes and conditions.
 - When making MP3/WMA/WAV discs, use ISO 9660 Level 1 or Level 2 for the disc format.
 - This System can play back MP3/WMA/WAV files with the extension code <.mp3>, <.wma> or <.wav> (regardless of the letter case—upper/lower).
 - It is recommended that you make each MP3/WMA/WAV files at the following conditions:
 - MP3/WMA: At a sampling rate of 44.1 kHz and bit rate of 128 kbps.
 - WAV: 44.1 kHz/16 bit Linear PCM.
 - This System cannot play back files made at bit rate of less than 64 kbps.
- For DVD-VR playback...
 - **Original Program:** The System can play back the original picture in the recorded order.
 - **Play List:** The System can play back the play list edited by the recording equipment.
 - For details about DVD-VR format and play list, refer to the manual of the recording equipment.

- For JPEG playback...
 - This System can play back JPEG files with the extension code <.jpg> or <.jpeg> (regardless of the letter case—upper/lower).
 - 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.
- For MPEG-1/MPEG-2 playback...
 - This System can play back MPEG-1/MPEG-2 files with the extension code <.mpg> or <.mpeg> (regardless of the letter case—upper/lower).
 - The stream format should conform to MPEG system/program stream.
 - 720 x 576 pixels (25 fps)/720 x 480 pixels (30 fps) is recommended for the highest resolution.
 - This System also supports the resolutions of 352 x 576/480 x 576/352 x 288 pixels (25 fps) and 352 x 480/480 x 480/352 x 240 pixels (30 fps).
 - The file format should be MP@ML (Main Profile at Main Level)/SP@ML (Simple profile at Main Level)/MP@LL (Main Profile at Low Level).
 - Audio streams should conform to MPEG1 Audio Layer-2 or MPEG2 Audio Layer-2.
- For ASF playback...
 - This System can play back ASF files with the extension code <.asf> (regardless of the letter case—upper/lower).
 - This System supports ASF files whose resolution is 352 x 288 pixels or less.
 - Some recorded files may not be able to played back depending on file characteristics, kind of digital still/video cameras, or recording conditions.

Daily Operations—Sound & Other Adjustments (see pages 13 to 16)

Reinforcing the Bass Sound:

- You cannot adjust the Active Bass level when the headphones are connected.

Applying an Optimal Bass Sound Effect—VARIO BASS:

- If you plug in a microphone and Mic Mixing is activated, the System will automatically switches the mode to LITE.n.EASY even if the mode is set to OFF.

Creating Your Own Sound Modes—User Mode:

- When you unplug the AC power cord or if a power failure occurs, the User Mode settings may be erased in a few days. If this happens, set the User Modes again.

Creating 3-dimensional Sound Field—3D Phonic:

- While you use the headphones, 3D Phonic is canceled temporarily.
 - 3D Phonic is also applied to the optical digital output signals through the OPTICAL DIGITAL OUTPUT terminal.

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 Video Disc/File Operations (see pages 17 to 19)

Selecting the Audio Track:

- On some disc/file, you cannot change audio languages while playing back.

Special Picture Playback:

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

Advanced Playback Operations (see pages 20 to 22)

Programming the Playing Order—Program Play:

- While programming steps...
 - Your entry will be ignored if you have tried to program an item number that does not exist on the disc (for example, selecting track 14 on a disc that only has 12 tracks).
- For SVCD/VCD/CD loaded on the other tray than the current one, the System may prompt for the group number entry as well; however, these entries will be ignored during playback.
- The programmed contents will remain until you erase it.
- While the PROGRAM indicator is on, you cannot change the disc to play. (DISC 1 – 5 on the remote control and DISC 1 – 5 ▷ on the main unit do not work.)

On-Screen Operations (see pages 23 to 28)

Operations Using the On-screen Bar:

- A-B Repeat is possible only within the same title or within the same track.

Recording Operations (see pages 29 to 30)

General:

- You cannot change the source during recording.
- There is leader tape which cannot be recorded onto at the start and the end of cassette tapes. Thus, before recording, wind the leader tape first to ensure that the recording will be made without any music part lost.
- If no cassette is inserted or a protected tape has been inserted, "NO REC" appears on the display.
- The recording level is automatically set correctly. Thus, you can make sound adjustments, without affecting the recording level.

Recording onto a Tape:

- When using Reverse Mode for recording, start recording in the forward (▶) direction first; otherwise, recording will stop when only one side (reverse) of the tape is recorded.
- While recording onto a tape using USB/DISC REC START button, plugging in or out headphones may cause sound distortion and affect the recording.

Synchronized Recording:

- You cannot open the disc tray while recording onto a tape using USB/DISC REC START button.
- Recording starts from the first track even if you have selected a track by using ◀◀/▶▶|. To specify track(s) to record, program them (not applicable for USB mass storage class device) or use One Track Recording.
- While recording, you cannot use disc/USB mass storage class device operation buttons (except for ■).
- You cannot use Repeat Play during synchronized recording (Repeat Play will be canceled).
- USB/DISC REC START button does not work:
 - While playback is paused.
 - When Random Play mode is selected.
 - When playing back in Program Play mode.
- When the tape reaches its end in the forward direction (▶) during recording, the last song will be re-recorded at the beginning of the reverse side (◀).
- When the tape reaches its end in the reverse side (◀) during recording, recording stops even though the disc/USB mass storage class device is not entirely recorded.

Enjoying Karaoke (see pages 31 to 34)

General:

- While recording onto a tape, Key adjustment, Echo and Vocal Masking will be recorded. However, while recording onto a tape using USB/DISC REC START, Key adjustment will not be recorded.
- While the System is turned on, connecting a microphone automatically activates Mic Mixing and all the Karaoke related functions.

- While the System is turned off, connecting a microphone does not activate Mic Mixing and any other Karaoke related function. In this case, press MIC MIX while holding SHIFT after turning the System on.

Adjusting the Sound Track for Karaoke:

- The Vocal Masking setting is not applied to the optical digital output signals through the OPTICAL DIGITAL OUTPUT terminal.
- On some music, Vocal Masking does not provide the correct effect.

Scoring Your Karaoke Skill:

- You can also activate Karaoke Scoring while playing back. In this case, the scoring starts from that point. But cancel Karaoke Scoring and set Karaoke Scoring again in the same track during the playback, scoring starts from next track.
- While Karaoke Scoring is in use, you cannot deactivate Mic Mixing or use MIC MIX, RESERVE and number buttons.
- Activating Karaoke Scoring cancels Repeat Play.
- You cannot use Karaoke Scoring during Program Play, Random Play, or recording. However, you can turn Karaoke Scoring on and off by using KARAOKE SCORING button during these play modes.
- The ranking (top 3) is cleared when you turn off the System.

Reserving Karaoke Songs—Karaoke Program Play:

- You can use RESERVE button when a microphone is plugged in. However, you can cancel Karaoke Program Play using the button even if a microphone is not plugged in. In case you reactivate Karaoke Program Play, plug in a microphone.
- If you have selected a disc tray on which a disc containing Video files or JPEG file or DVD-VR is loaded, that disc number is skipped.
- If DVD-VR or a disc containing Video files and JPEG file is loaded on the current tray, you cannot activate Karaoke Program Play.
- When the track starts playback, that track number will be erased from the Karaoke Reserve screen (the programmed contents will remain until you erase it).
- While the PROGRAM indicator is flashing, you cannot change the disc to play. (DISC 1 – 5 on the remote control and DISC 1 – 5 ▷ on the main unit do not work.)
- For some VCD, the Karaoke Scoring result may not appear at the end of the track if PBC is activated. In this case, press ■ to view your scoring result.

Timer Operations (see pages 35 to 36)

Setting the Timer:

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

Setup Menu Operations (see pages 37 to 38)

General:

- If the upper and lower parts of the menu are cut off, adjust the picture size control of the TV.

LANGUAGE 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 menu—MONITOR TYPE:

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

OTHERS menu—ON SCREEN GUIDE:

- The setup menu and on-screen bar will be displayed (and recorded) even though this function is set to “OFF.” Subtitles and the information for zoom-in always appear on the display regardless of this setting.

Maintenance

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

Handling discs

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

To clean the disc:

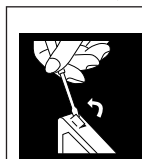
Wipe the disc with a soft cloth in a straight line from center to edge.

Handling cassette tapes

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

To keep the best recording and playback sound quality:

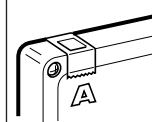
- Use a cotton swab moistened with alcohol to clean the heads, capstans and pinch rollers.
- Use a head demagnetizer (available at electronics and audio shops) to demagnetize the heads (when the System is turned off).



To protect your recording

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

To protect your recording, remove these tabs.



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

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 forcefully.
 - DO NOT wipe it with thinner or benzine.
 - DO NOT apply any volatile substance such as insecticides to it.
 - DO NOT allow any rubber or plastic to remain in contact for a long time.

Troubleshooting

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

General:

Adjustments or settings are suddenly canceled before you finish.

⇒ There is a time limit. Repeat procedure again.

Operations are disabled.

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

Unable to operate the System from the remote control.

⇒ The path between the remote control and the remote sensor on the System is blocked.

⇒ 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.

⇒ Incorrect color system is selected (see page 6).

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

⇒ Select “4:3 LB” for “MONITOR TYPE” (see page 37).

Radio Operations:

Hard to hear 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/file Operations:

The disc does not play.

⇒ You have inserted a DVD Video whose Region Code is not “1.” (“REGION ERR” appears on the display.)

⇒ The disc is placed upside down. Place the disc with the label side up.

ID3 Tag on an MP3 disc cannot be shown.

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

Groups and files are not played back as you expect.

⇒ The playing order is determined when the files were recorded. It depends on the application.

AV files are not played back.

⇒ The disc or USB mass storage class device includes different types of files (Audio file, Video file and Still picture file). In this case, you can play back the files selected only by the “FILE TYPE” setting (see page 37).

⇒ You have changed the “FILE TYPE” setting after the System read the disc or the USB mass storage class device. In this case, reload the disc or disconnect the USB mass storage class device and connect it again.

The disc sound is discontinuous.

⇒ The disc is scratched or dirty.

The playback sounds strange.

⇒ Cancel Vocal Masking (see page 32).

⇒ Cancel Key adjustment (see page 33).

No subtitle appears on the TV screen though you have selected the initial subtitle language.

⇒ Some discs are programmed to always display no subtitle initially. If this happens, press SUB TITLE after starting play (see page 18).

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

⇒ Some discs/files are programmed to always use the original language initially. If this happens, press AUDIO/MPX after starting play (see page 17).

The disc tray does not open or close.

⇒ The AC power cord is not plugged in.

⇒ Child Lock is in use. “LOCKED” appears on the display window (see page 22).

⇒ Program Play is in use. Cancel Program Play (see page 21).

Tape Operations:

The cassette holder cannot be opened.

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

Recording Operations:

“CANNOT REC” appears on the display.

⇒ The System cannot perform recording.

Impossible to record.

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

⇒ Karaoke Scoring is in use. Cancel the Karaoke Scoring (see page 32).

Karaoke Operations:

Karaoke function cannot be activated.

⇒ Ensure at least 1 microphone is connected and Mic Mixing is activated. If a microphone is not connected, you cannot activate Mic Mixing and any other Karaoke related function.

Karaoke Scoring function cannot be activated.

⇒ You cannot use Karaoke Scoring while recording, or while the disc menu for DVD Video/SVCD/VCD is shown on the TV screen.

Scoring result seems wrong (or “-” appears).

⇒ The time of the playback and singing along are too short for Karaoke Scoring. It is recommended to sing more than 3 minutes to obtain a correct scoring result.

⇒ No sound from the microphone or the input level (MIC LEVEL) is too low.

⇒ You have sung too quietly.

Timer Operations:

Daily Timer or Recording 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.

OPTICAL DIGITAL OUTPUT Signals

DIGITAL AUDIO OUTPUT Playback disc/file	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-R/-RW in DVD-VR format			
with 48 kHz, 16/20/24 bit Linear PCM	48 kHz, 16 bit Linear PCM*		
with Dolby Digital	Dolby Digital 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/WAV/MPEG-1/ MPEG-2 disc/file	32 kHz/44.1 kHz/48 kHz, 16 bit Linear PCM		
ASF disc/file	32 kHz, 16 bit Linear PCM		

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

Language Code List

AA Afar	FA Persian	KM Cambodian	OC Occitan	SV Swedish
AB Abkhazian	FI Finnish	KN Kannada	OM (Afan) Oromo	SW Swahili
AF Afrikaans	FJ Fiji	KO Korean (KOR)	OR Oriya	TA Tamil
AM Ameharic	FO Faroese	KS Kashmiri	PA Panjabi	TE Telugu
AR Arabic	FY Frisian	KU Kurdish	PS Pashto, Pushto	TG Tajik
AS Assamese	GA Irish	KY Kirghiz	PT Portuguese	TH Thai
AY Aymara	GD Scots Gaelic	LA Latin	QU Quechua	TI Tigrinya
AZ Azerbaijani	GL Galician	LN Lingala	RM Rhaeto-Romance	TK Turkmen
BA Bashkir	GN Guarani	LO Laothian	RN Kirundi	TL Tagalog
BE Byelorussian	GU Gujarati	LT Lithuanian	RO Rumanian	TN Setswana
BG Bulgarian	HA Hausa	LV Latvian, Lettish	RW Kinyarwanda	TO Tonga
BH Bihari	HI Hindi	MG Malagasy	SA Sanskrit	TR Turkish
BI Bislama	HR Croatian	MI Maori	SD Sindhi	TS Tsonga
BN Bengali, Bangla	HY Armenian	MK Macedonian	SG Sangho	TT Tatar
BO Tibetan	IA Interlingua	ML Malayalam	SH Serbo-Croatian	TW Twi
BR Breton	IE Interlingue	MN Mongolian	SI Singhalese	UK Ukrainian
CA Catalan	IK Inupiak	MO Moldavian	SL Slovenian	UR Urdu
CO Corsican	IN Indonesian	MR Marathi	SM Samoan	UZ Uzbek
CY Welsh	IS Icelandic	MS Malay (MAY)	SN Shona	VI Vietnamese
DA Danish	IW Hebrew	MT Maltese	SO Somali	VO Volapuk
DZ Bhutani	JI Yiddish	MY Burmese	SQ Albanian	WO Wolof
EL Greek	JW Javanese	NA Nauru	SR Serbian	XH Xhosa
EO Esperanto	KA Georgian	NE Nepali	SS Siswati	YO Yoruba
ET Estonian	KK Kazakh	NL Dutch	ST Sesotho	ZU Zulu
EU Basque	KL Greenlandic	NO Norwegian	SU Sundanese	

Specifications

Amplifier section—CA-DXJ21

Output Power:

MAIN SPEAKERS:

105 W per channel, min. RMS, driven into 6 Ω at 1 kHz with no more than 10% total harmonic distortion.


SUBWOOFER: 105 W, min. RMS, driven into

6 Ω at 63 Hz with no more than 10% total harmonic distortion.

Digital output:

OPTICAL DIGITAL OUTPUT:

-21 dBm to -15 dBm (660 nm \pm 30 nm)

Digital input:  (USB MEMORY)

Audio input sensitivity/Impedance

(Measured at 1 kHz, with tape recording signal 300 mV)

AUX: 400 mV/47 k Ω

MIC1/2: 3.0 mV/50 k Ω

VIDEO OUT:

Color system: NTSC/PAL

VIDEO (composite): 1 V(p-p)/75 Ω

S-VIDEO: Y (luminance) 1 V(p-p)/75 Ω

C (chrominance, burst)

NTSC 0.286 V(p-p)/75 Ω

PAL 0.3 V(p-p)/75 Ω

Speaker Terminals: 6 Ω - 16 Ω (main speakers/subwoofer)

Tuner section

FM tuning range: 87.5 MHz - 108.0 MHz

AM (MW) tuning range: 530 kHz - 1 710 kHz

Disc/File player section

Playable disc:

DVD Video/CD/VCD/SVCD
CD-R/CD-RW (MP3/WMA/WAV/
JPEG/MPEG-1/MPEG-2/ASF format)

DVD-R/-RW (DVD-VR/DVD-video/
MP3/WMA/WAV/JPEG/MPEG-1/
MPEG-2/ASF format)

+R/+RW (DVD-video/MP3/WMA/
WAV/JPEG/MPEG-1/MPEG-2/ASF
format)

DVD-ROM (DVD-video/MP3/WMA/
WAV/JPEG/MPEG-1/MPEG-2/ASF
format)

Playable file: MP3/WMA/WAV/JPEG/MPEG-1/
MPEG-2/ASF format

Dynamic range: 80 dB

Horizontal resolution: 500 lines

Wow and flutter: Immeasurable

USB storage section

USB specification: Compatible with USB 2.0 Full Speed

Compatible device: Mass storage class

Compatible file system: FAT 16, FAT 32

Bus power supply: DC 5 V  500 mA

Cassette deck section

Frequency response

Normal (type I): 50 Hz - 14 000 Hz

Wow and flutter: 0.15% (WRMS)

Subwoofer (SP-DXJ21W)

Type:

1-Way Bass-Reflex Type

(Magnetically Shielded Type)

Speaker:

16.0 cm (6-5/16 inches) cone x 1

Power Handling Capacity: 120 W

Impedance: 6 Ω

Frequency Range: 45 Hz to 5 000 Hz

Sound Pressure Level: 88 dB/W•m

Dimensions (W \times H \times D):

205 mm \times 370 mm \times 236 mm

(8-1/8 inches \times 14-5/8 inches \times 9-5/16 inches)

Mass:

3.5 kg (7.8 lbs)

Main speaker (SP-DXJ21F)

Type:

3-Way 3-Speaker Bass-Reflex Type

(Magnetically Shielded Type)

Speakers:

Main Woofer: 16.0 cm (6-5/16 inches) cone \times 1

Mid Range: 5.0 cm (2 inches) cone \times 1

Tweeter: 2.0 cm (13/16 inches) dome \times 1

Power Handling Capacity: 120 W

Impedance: 6 Ω

Frequency Range: 45 Hz to 20 000 Hz

Sound Pressure Level: 87 dB/W•m

Dimensions (W \times H \times D):

205 mm \times 370 mm \times 236 mm

(8-1/8 inches \times 14-5/8 inches \times 9-5/16 inches)

Mass:

3.7 kg (8.2 lbs) each

General

Power requirement: AC 120 V \sim , 60 Hz

Power consumption: 155 W

15 W (on standby)

Dimensions (W/H/D) (approx.):

185 mm x 370 mm x 372 mm

(7-5/16 inches x 14-5/8 inches x 14-11/16 inches)

Mass (approx.):

9.3 kg (20.6 lbs)

Supplied Accessories

See page 3.

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Parts Index

Remote control

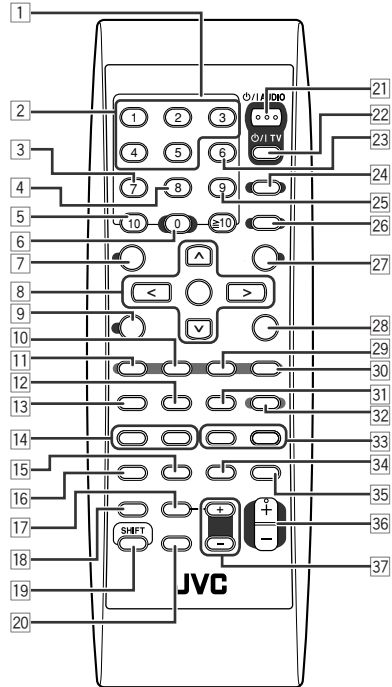
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Main unit

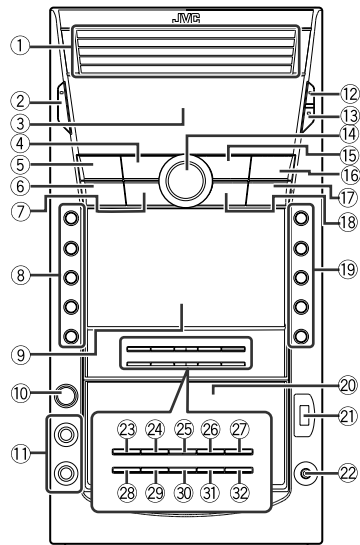
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Remote control



Main unit



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————— **Do not attempt to service the product yourself** —————

Caution

To prevent electrical shock, do not open the cabinet.

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ONLY FOR PRODUCT PURCHASED IN U.S.A.

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

PARTS	1 YR	LABOR	1 YR
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THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN THE COMMONWEALTH OF PUERTO RICO.

WHAT WE WILL DO:

If this product is found to be defective within the warranty period, JVC will repair or replace defective parts with new or rebuilt equivalents at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products may be brought to a JVC authorized service center on a carry-in basis. Color televisions with a screen size of 37" class or greater qualify for in-home service. In such cases, a technician will come to your home and either repair the TV there or remove and return it if it cannot be repaired in your home.

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Please do not return your product to the retailer
Instead, return your product to the JVC authorized service center nearest you. If shipping the product to the service center, please be sure to package it carefully, preferably in the original packaging, and include a brief description of the problem(s). Please call 1-800-252-5722 to locate the nearest JVC authorized service center. Service locations can also be obtained from our website <http://www.jvc.com>. If your product qualifies for in-home service, the service representative will require clear access to the product.

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 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;
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Purchase date :	Name of dealer :

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