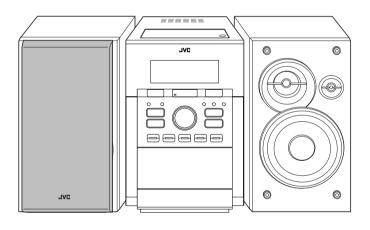
JVC



MICRO COMPONENT SYSTEM

UX-G70—Consists of CA-UXG70 and SP-UXG70















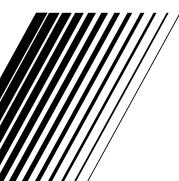








MPEG-4 Digital Direct Progressive Scan



INSTRUCTIONS

Warnings, Cautions and Others

CAUTION— O/I (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 O/I (Standby/on) 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.

IMPORTANT FOR LASER PRODUCTS

- 1. CLASS 1 LASER PRODUCT
- 2. CAUTION: Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service
- 3. **CAUTION:** Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.

CAUTION

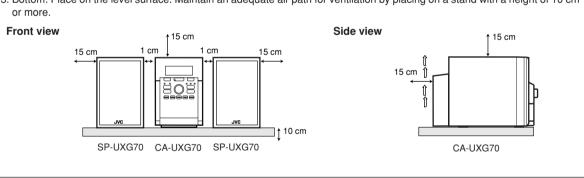
- Do not block the ventilation openings or holes. (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
- Do not place any naked flame sources, such as lighted candles, on the apparatus.
- · When discarding batteries, environmental problems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

Caution: Proper Ventilation

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

1. Front: No obstructions and open spacing.

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





Introduction

Precautions

Installation

• Install the System in a location with adequate ventilation to prevent internal heat buildup in the System.



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

- 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 on the lenses inside the System in the following cases:

- · After starting to heat the room
- In a damp room
- If the System is brought directly from a cold to a warm place.

Should this occur, the System may malfunction. In this case, leave the System turned on for a few hours until the moisture evaporates, unplug the AC power cord, then plug it in again.

Internal heat

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



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

Others

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



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

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

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

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Playable Disc Types















Video CD





- CD-R/-RW: Recorded in the Audio CD, Video CD and SVCD formats, MP3, WMA, JPEG, MPEG-1. MPEG-2, ASF and DivX files written in accordance with the "ISO 9660" format can also be played.
- DVD-R/-RW, +R/+RW: Recorded in the DVD Video format, MP3, WMA, JPEG, MPEG-1, MPEG-2, ASF and DivX files written in the UDF bridge format can also be played.
- DVD-R/-RW/-ROM: Recorded in the DVD Video Recording (VR) format.

In addition to the above discs, this System can playback audio data recorded on CD-Extra.

- The following discs cannot be played back: DVD-RAM, CD-I (CD-I Ready), CD-ROM, Photo CD, CD-G (CD-Graphics) and DVD/CD Text. Playing back these discs will generate noise and damage the speakers.
- In this manual, "file" and "track" are interchangeably used for MP3, WMA, JPEG, MPEG-1, MPEG-2, ASF and DivX operations.
- It is possible to playback finalized +R/+RW (DVD format only) discs. "DVD" lights on the front display panel when a +R/+RW disc is loaded.

About color system

This System accommodates the NTSC and PAL system and can playback discs recorded in either the NTSC or the PAL

• To change the color system, see page 15.

Note on Region Code

DVD players and DVDs have their own Region Code numbers. This System can playback only DVDs with Region Code numbers including "4."

EX.:









Audio formats

The System can playback the following digital audio

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

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

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

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

- Turn on the TV and select an appropriate input mode on the TV to view the pictures or on-screen displays.
- For disc playback, you can change the initial setting to your preference. See "Setup Menu Operations" on page 33.

If " \(\infty\)" appears on the TV screen when you press a **button,** the disc cannot perform the operation you have tried to do.

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).

-	$\overline{}$	
U	d	

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.



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.

"DVD Logo" is a trademark of DVD Format/Logo Licensing Corporation registered in the US, Japan and other countries.

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 the Non-DVD side of a DualDisc in this product is not recommended.

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 copyprotected disc. Connecting VIDEO OUT to an integrated TV/VCR system may also interfere with your viewing.

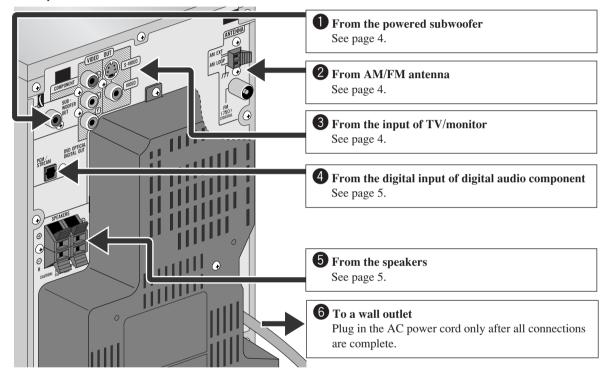
Supplied accessories

Check to be sure that you have all the following items.

- FM antenna (x1)
- AM loop antenna (x1)
- Composite video cord (x1)
- Core filters* (x2)
- Remote control (x1)
- Batteries (x2)

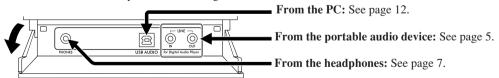
If any item is missing, consult your dealer immediately.

Rear panel

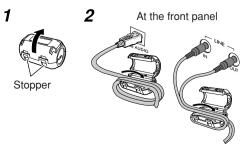


Front panel

Pull down the cover until you hear a clicking sound.



*Attaching the core filter to the USB cable, LINE IN and LINE OUT cable to reduce interference



Wind firmly the USB cable twice. Wind firmly the LINE IN and LINE OUT cable once.

- Keep close between the plug and the core filter
- Do not damage the cable by applying excessive force when winding.



Close the core filter until you hear a clicking sound.

Powered subwoofer

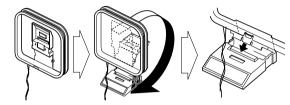


The subwoofer connected can reproduce the bass sounds recorded in front left and right channels, but cannot reproduce the LFE signals in DVD multi-channel discs.

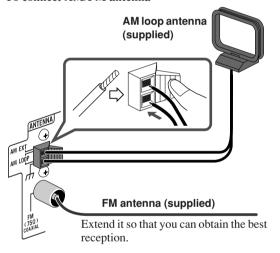
• Before plugging the unit to the main supply, make sure that the powered subwoofer is turned off.

2 AM/FM antenna

To assemble the AM loop antenna



To connect AM/FM antenna



For better AM/FM reception

AM loop antenna (supplied)
Keep it connected.

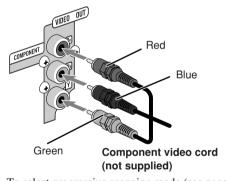
Vinyl-covered wire (not supplied)
Extend it horizontally.

FM outdoor antenna (not supplied)

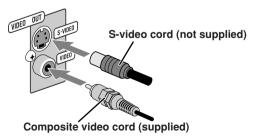
• Disconnect the supplied FM antenna, and connect to an outdoor FM antenna using a 75 Ω wire with coaxial type connector (IEC or DIN45325).

3 TV/monitor

Connect only component cord at one time.

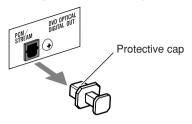


• To select progressive scanning mode (see page 15), use COMPONENT jacks.



• After connecting a TV, select the proper video signal mode according to the connection method. See "Changing the Scanning Mode" on page 15.

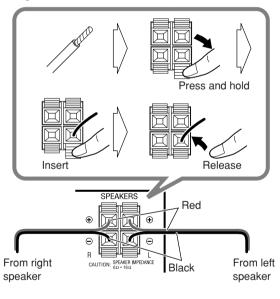
4 Digital audio component



- Set "DIGITAL AUDIO OUTPUT" in the "AUDIO" menu correctly according to the connected digital audio equipment (see page 34). If the setting is incorrect, loud noise may be generated causing damage to the speakers.
- Digital audio signals are output from this System only when "DVD/CD" is selected as the source.

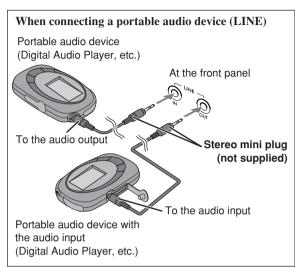
Speakers

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



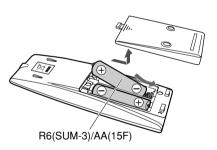


- DO NOT connect more than one speaker to each terminal.
- DO NOT push or pull the speakers as this will damage the foot spacers at the bottom of the speakers.



- By using QP Link (Quick Portable Link), you can easily start playing back a portable audio device on this unit when connecting it to the LINE IN jack. See page 12 for details.
- Connect an audio component to the LINE OUT jack if the component is not equipped with a digital input terminal.
- If an external device is not equipped with a stereo mini plug audio output, use a plug adaptor to convert the stereo mini plug to the corresponding plug of the audio output.

Preparing the remote control



• Dispose of batteries in the proper manner, according to federal, state, and local regulations.



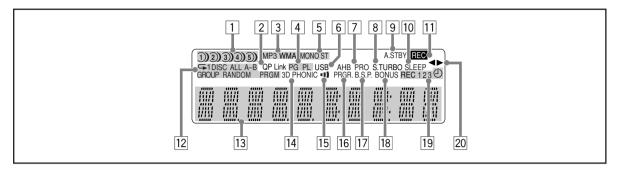
DO NOT recharge, short, disassemble, heat the battery or dispose of it in a fire.

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.

Display Indicators

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 Disc tray indicators

- 1–5: Disc tray number indicators.
- -Flashing while the disc tray is open.
- \supset (disc tray indicator):
 - -Lights when the disc is detected.
 - -Flashing while playing back a disc or the disc tray is open.
- -Disappears when there is no disc in the tray.
-): Lights to indicate the current selected disc.
- 2 QP Link (Quick Portable Link) indicator
 - · Lights when QP Link is activated.
- 3 Audio file format indicators
 - MP3: lights when an MP3 track is detected.
 - WMA: lights when a WMA track is detected.
- 4 PG/PL indicators
 - PG: lights when a DVD-VR formatted disc is called up.
 - PL: lights when a playlist recorded on a DVD-VR formatted disc is called up.
- 5 FM reception indicators
 - MONO: lights while receiving an FM stereo station in monaural.
 - ST (stereo): lights while an FM stereo station with sufficient signal strength is tuned in.
- 6 USB indicator
 - Lights when "USB" is selected as the source.
- 7 AHB PRO indicator
 - Lights when Active Hyper Bass Pro is activated.
- 8 S.TURBO (Sound Turbo) indicator
 - Lights when Sound Turbo II is activated.
- 9 A.STBY (Auto Standby) indicator
 - Lights when Auto Standby is activated.
 - Flashes for about 3 minutes before Auto Standby turns the System off.
- 10 SLEEP indicator
 - Lights when the Sleep Timer is activated.
- 11 REC indicator
 - · Lights while recording.

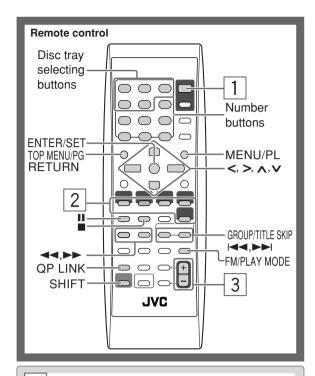
12 Playback mode indicators

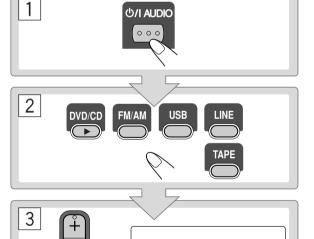
- PRGM: lights when Program Play is activated.
- RANDOM: lights when Random Play is activated.
- **⇐** (repeat)1 DISC A-B ALL GROUP:
- 1: lights when One Track/Chapter/Step Repeat is activated.
- ←, GROUP: lights when Group Repeat is activated.
- ←,1,DISC: lights when One Disc Repeat is activated.
- ←,DISC,ALL: lights when All Disc Repeat is activated.
- ←,A-B: lights when A-B Repeat is activated.

13 Main display

- While listening to radio: Band (or preset number) and station frequency appear.
- While selecting "LINE": "LINE" appears.
- While selecting "TAPE": "TAPE" appears.
- While selecting "USB": "USB AUDIO" appears.
- While playing a disc: current status appears.
- 14 3D PHONIC indicator
 - Lights when 3D Phonic is activated.
- (Clear Voice) indicator
 - Lights when Clear Voice is activated.
- 16 PRGR. (Progressive) indicator
- Lights when the progressive scanning mode is selected.
- [17] B.S.P. (Browsable Still Picture) indicator
 - Lights when Browsable Still Pictures are detected while playing a DVD Audio disc.
- 18 BONUS indicator
 - Lights when a DVD Audio disc with a bonus group is detected.
- 19 Daily Timer indicators
 - 1/2/3: lights when a Daily Timer (1, 2, or 3) is on standby; flashes while working or being set.
 - ②: lights when Daily Timer is on standby or is being set.
 - REC: lights when the Recording Timer stands by; flashes while working or being set.
- 20 **►** (tape direction) indicators
 - -Lights to indicate the current tape running direction.
 - -Flashes slowly during playback and recording.
 - Flashes quickly while rewinding or fast-forwarding a tape.

Daily Operations—Playback







In this manual, 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 turns on by pressing one of the source buttons.
- The System turns on and changes the source to LINE by starting playback on an external device when QP Link is activated. (See page 12 for details.)

2 Select the source.

Playback automatically starts if the selected source is ready.

- If you press LINE, start playback on the external component.
- 3 Adjust the volume.
- 4 Operate the target source as explained later.

To turn off (standby) the unit



The STANDBY lamp on the main unit lights in red.

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

You can reduce power consumption by pressing DISPLAY to turn the display off while on standby.

• When the display is turned off, QP Link does not work.

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.

Listening to the Radio (NEO

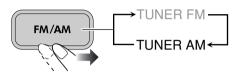


To set the AM tuner interval spacing

Before operating the tuner, it is required to select the appropriate AM space interval used for your area.

• This is possible only while the System is on standby.

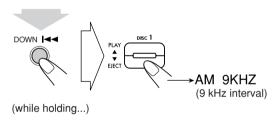
1 Select the AM band.

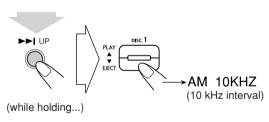


2 Turn off the power.

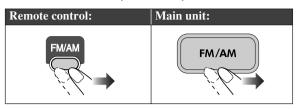


3 Select the appropriate AM space interval for your area.



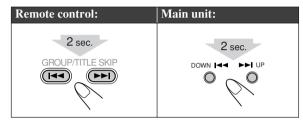


To select the band (FM or AM)



To tune in to a station

While FM or AM is selected...



Frequency starts changing on the display.

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

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

To stop searching manually, press either button.

If the FM station has poor reception





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

To preset the 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.





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

3 Select a preset number for the station you store.



Examples:

To select preset number 5, press 5.

To select preset number 10, press 10.

To select preset number 15, press ≥ 10 , 1, then 5.

To select preset number 30, press ≥ 10 , 3, then 0.

- You can also use the ▶▶ or ◀◀ button.
- **4** Store the station.

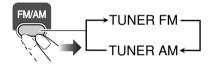




To tune in to a preset station



1 Select the band (FM or AM).



2 Select the preset number for the station you stored.



Examples:

To select preset number 5, press 5

To select preset number 10, press 10.

To select preset number 15, press ≥ 10 , 1, then 5.

To select preset number 30, press $\ge 10, 3$, then 0.

• You can also use the ▶▶ or ◀◀ button.

Playing Back a Tape

To insert a tape

Push

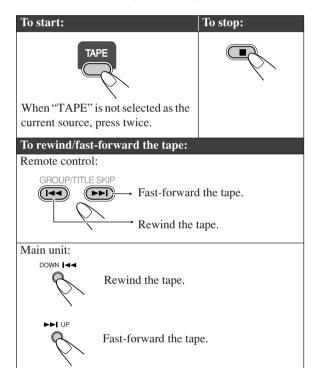
You can playback type I tapes.



Close

Insert

With the tape side facing outside



Playing Back a Disc (NEO)

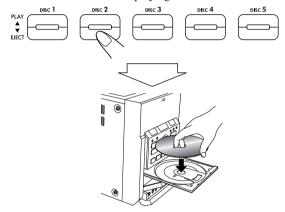


Before operating a disc, be familiar how a disc is recorded.

- DVD Video/DVD-VR comprises of "Titles" which includes "Chapters," DVD Audio/MP3/WMA/MPEG-1/ MPEG-2/ASF/DivX comprises of "Groups" which includes "Tracks," JPEG comprises of "Groups" which includes "Files." and CD/SVCD/VCD comprises of only "Tracks."
- For playback of MP3/WMA/JPEG/MPEG-1/MPEG-2/ ASF/DivX, see also page 27.

To insert a disc

You can insert a disc while playing another source.



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

To close the disc tray, press the upper part of the same button. The tray closes and playback starts.

- When current selected disc tray is open, you can use DVD/CD ► to close the disc tray and start playback (depending on how the disc is programmed internally).
- While one of the trays is open, the tray closes automatically by pressing down EJECT for the next tray, then the next tray comes out.

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

 While playing DVD/SVCD/VCD/MP3/WMA/MPEG-1/ MPEG-2/ASF/DivX: This System can store the stop point, and when you start playback again by pressing DVD/CD▶ (even while on standby), it starts from the position where you have stopped—Resume Play. ("RESUME" appears on the display when you stop playback.)

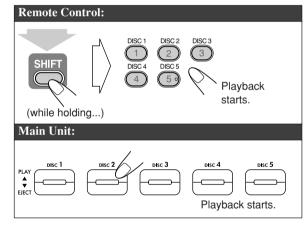
To stop completely while Resume is activated, press ■ twice. (To cancel Resume, see "RESUME" on page 34.)

• When operating the System, the on-screen guide icon (see the following table) appears on the TV.

On-screen quide icons

- During DVD Video playback, the following icons may appear on the TV:
 - At the beginning of a scene containing <u>مر</u> multi-angle views.
 - At the beginning of a scene containing multi-audio sounds.
 - At the beginning of a scene containing multi-subtitles.
- The following icons will be also shown on the TV to indicate your current operation.
 - **D**, **M**, **W**, **W**, **M**
- To deactivate the on-screen guide icons, see "ON SCREEN GUIDE" in "OTHERS menu" on page 34.

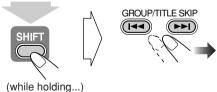
To select a disc



To select a title/group



While playing a disc...



- You can select a title/group directly by pressing a number button after pressing GROUP/TITLE (except for DVD-VR
- Group name appears for MP3/WMA playback.

To select a chapter/track

• For VCD/SVCD, cancel PBC (see the right column). While playing a disc...



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

To locate a particular portion Remote ONLY



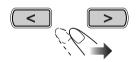
While playing a disc...



- Search speed changes as illustrated above except for MP3/ WMA/DivX discs. For MP3/WMA/DivX discs, search speed and the indications on the TV are different.
- No sound comes out if searching is carried out while showing the moving picture.

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

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



To locate an item directly



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

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



Examples:

To select number 5, press 5. To select number 10, press 10. To select number 15, press ≥ 10 , 1. then 5.

To select number 30, press ≥ 10 , 3, then 0.

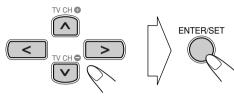
To playback using the disc menu (Romete) >>>



- For DVD Video/DVD Audio:
- 1 Show the disc menu.



2 Select an item on the disc menu.



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

■ For SVCD/VCD with PBC:

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

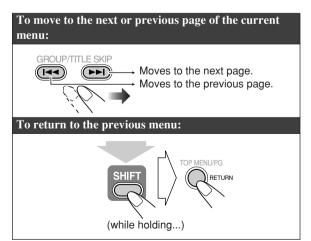
When disc menu appears on the TV, select an item on the menu. Playback of the selected item starts.



Examples:

To select number 5, press 5. To select number 10, press 10. To select number 15, press ≥ 10 ,

To select number 30, press ≥ 10 , 3, then 0.



To cancel PBC, press ■, then select a track. Playback starts with the selected track.

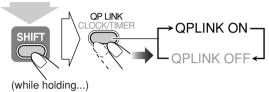
To reactivate PBC, press ■ (twice if Resume is turned "ON"), then press DVD/CD \triangleright .

Playing Back a Portable Audio Device CNEO

By using QP Link (Quick Portable Link), you can easily start playing back a portable audio device connected to the LINE IN jack (see page 5).

• Make sure to set the volume of your portable audio device loud enough so that the System can detect the sound signal.

To activate QP Link Remote (NLY)



When QP Link is activated, connecting a portable device to the LINE IN jack and starting playback performs the following:

- While listening to another source...
 Changes the source to LINE automatically. (If you change from LINE to another source, QP Link will be canceled.)
- While the System is on standby...

 Turns on the System and activates the L.

Turns on the System and activates the LINE source automatically (except when the display is turned off).



While QP Link plays back the device...



Playing Back from the PC (NEO)



This System is equipped with a USB AUDIO terminal on the front panel. You can connect your PC to this terminal and enjoy sound reproduced through your PC.

When you connect your PC for the first time, follow the procedure below.

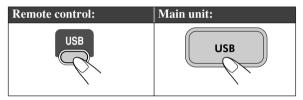
 Remember you cannot send any signal or data to your PC from this System.

IMPORTANT

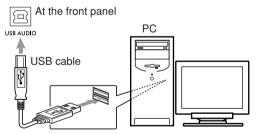
 Always set volume to "VOL MIN" when connecting or disconnecting the other equipment.

How to install the USB drivers

- 1 Turn on your PC and start running Windows® 98*, Windows® 98SE*, Windows® Me*, Windows® 2000*, or Windows® XP*.
 - If the PC has been turned on, quit all the applications running.
- **2** Select "USB" as the source.



3 Connect the System to the PC using a USB cable (not supplied).



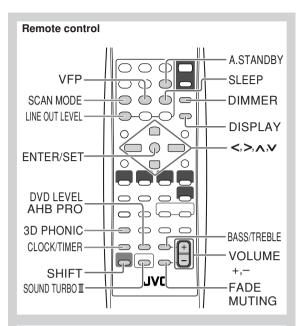
- Use "USB series A plug to B plug" cable less than 3 m.
- **4** The USB drivers are installed automatically.

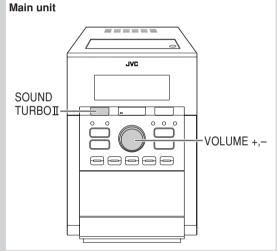
To playback sound on the PC

Refer to the manuals supplied with the sound reproduction application installed in the PC.

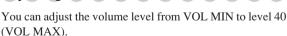
- Noise and static electricity may stop the sound through the USB connection. In this case, do the following operations:
 - Disconnect and connect the USB cable again
- Restart the music software on your PC
- Turn off and on the System
- * Microsoft®, Windows® 98, Windows® 98SE, Windows® Me, Windows® 2000 and Windows® XP are registered trademarks of Microsoft corporation.

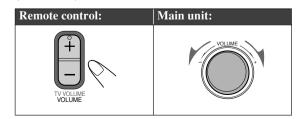
Daily Operations—Sound & Other Adjustments





Adjusting the Volume





To drop the volume in a moment





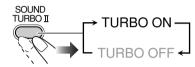
To restore the volume, press again, or adjust the volume level.

Adjusting the Sound (NEO)



To reinforce the heavy sound

This boosts the low and high frequency sound—Sound Turbo II.



· When Sound Turbo II is turned on, AHB Pro is automatically turned on, and cannot be turned off. (AHB PRO indicator does not light even though the function is turned on.)

To reinforce the bass sound (NNLY)>>>



While Sound Turbo II is off, the richness and fullness of the bass sound is clearly maintained regardless of how you set the volume—Active Hyper Bass Pro.



• When Sound Turbo II is turned on, AHB Pro setting cannot be changed.

To adjust the tone Femore (SNLY)



You can adjust the bass and treble level from -3 to +3.

To adjust the bass



To adjust the treble



Creating 3-dimentional Sound Field

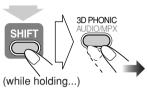






 This does not function for MPEG-1/MPEG-2/ASF/DivX discs.

While playing a disc...



r >	3D PHONIC	ACTION	 	3D PHONIC	DRAMA	Ь
4	3D PHONIC	OFF	-	3D PHONIC	THEATER	Ŋ _Ŧ Ĵ

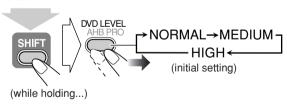
• The selected mode can only be shown on the TV.

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 >>>>

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 only functions for DVD Video and DVD-VR format disc.

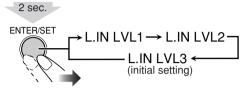


NORMAL	Original recording level.	
MEDIUM	Output level is increased (less than "HIGH").	
HIGH	Output level is increased (more than "MEDIUM"). (initial setting)	

Adjusting the Audio Input Level (Source)



If the sound from the component connected to the LINE IN jack is too loud or is too quiet when changing from another source to LINE, you can change the audio input level through the LINE IN jack (without changing the volume level).

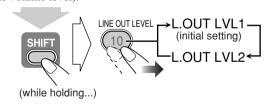


L.IN LVL1	Select this when the sound is too loud with "L.IN LVL 2" selected. This setting is recommended when connecting an audio device other than a portable audio device to the LINE IN jack.	
L.IN LVL2	Select this when the sound is too loud with "L.IN LVL 3" selected.	
L.IN LVL3	Select this when listening to a portable audio device or recording the sound from it (initial setting).	

Adjusting the Audio Output Level Remote Solly Solly



If the recorded sound on the device connected to the LINE OUT jack is too loud or too quiet, you can change the audio output level through the LINE OUT jack (without changing the volume level).



L.OUT LVLT	with a portable audio device (initial setting).
L.OUT LVL2	Select this when the recorded sound is
	too loud with "L.OUT LVL 1" selected.

OUT LV/L4

Changing the Display Brightness



You can dim the display window.



DIMMER ON Dims the display.

AUTO DIM*

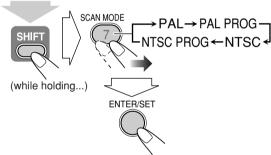
Removes the display illumination when starting playback a disc with a video

• The display illuminates when playback stops.

Changing the Scanning Mode (Source) (NFO)



This System supports progressive scanning. Select the video signal mode according to the type of your TV. If you connect a progressive TV through the VIDEO OUT jacks, you can enjoy a high quality picture from the built-in DVD player by selecting "NTSC PROG" or "PAL PROG."



	·	
NTSC	Select for a conventional NTSC TV.	
NTSC PROG	Select for a progressive NTSC TV. Select to enjoy a progressive scanned picture through the Video Componen out terminal.	
PAL	Select for a conventional PAL TV.	
PAL PROG	Select for a progressive PAL TV. Select to enjoy a progressive scanned picture through the Video Component out terminal.	

Changing the Picture Tone (Source) (Source)

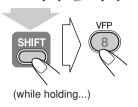




· While showing a playback picture on the TV, you can select a preset picture tone, or adjust it and store your own

To select a preset picture tone

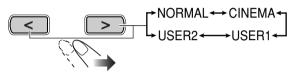
1 While playing, display VFP setting screen.





On the TV

2 Select a preset picture tone.

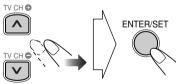


NORMAL	Normally select this.
CINEMA	Suitable for a movie source.
USER1/USER2	You can adjust parameters and can
	store the settings.

To remove the screen, press VFP again while holding SHIFT, or wait for more than 5 seconds.

To adjust the picture tone

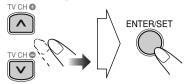
- 1 Select "USER1" or "USER2."
 - Follow steps 1 and 2 explained above.
- **2** Select a parameter you want to adjust.



GAMMA	Adjust if the neutral color is bright or dark $(-3 \text{ to } +3)$.
BRIGHTNESS	Adjust if the entire picture is bright or dark $(-8 \text{ to } +8)$.
CONTRAST	Adjust if the far and near positions are unnatural (–7 to +7).
SATURATION	Adjust if the picture is whitish or blackish (–7 to +7).
TINT	Adjust if the human skin color is unnatural (–7 to +7).
SHARPNESS	Adjust if the picture is indistinct (-8 to +8).

^{* &}quot;AUTO DIM" does not work for CD/MP3/WMA.

3 Adjust the parameter.



4 Repeat steps 2 to 3 to adjust other parameters.

To erase the screen, press VFP again while holding SHIFT, or wait for more than 5 seconds.

Setting the Clock Remote ONLY >>> INFO





Without setting the built-in clock, you cannot use Daily Timers (see page 31) and Sleep Timer.

• To correct a mis-entry during the process, press CANCEL or CLOCK/TIMER. You can return to the previous step.

1 Activate the clock setting mode.

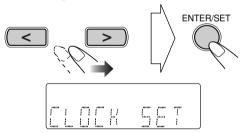




· If you have already adjusted the clock before, press the button repeatedly until the clock setting mode is selected.

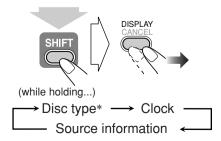
2 Set the time.

• Adjust the hour and press ENTER/SET, then adjust the minute and press ENTER/SET.



Now the built-in clock starts working.

To check the current clock time during play

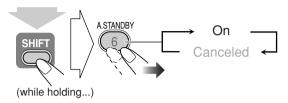


* This appears depending on the disc type.

Turning Off the Power Automatically 4



Auto Standby



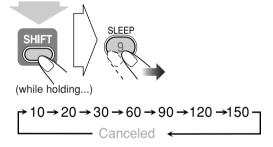
When Auto Standby is in use, the A.STBY indicator lights on the display.

When disc play stops, the A.STBY indicator starts flashing. If no operation is done for about 3 minutes while the indicator is flashing, the System turns off (on standby) automatically.

Sleep Timer

You can set the shut-off time so that you can go to bed without turning it off yourself.

1 Specify the time (in minutes).

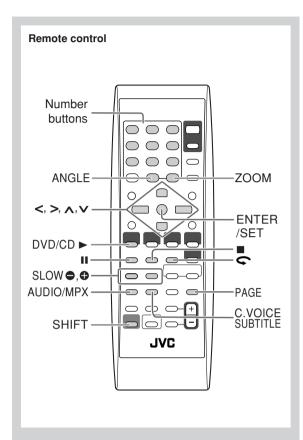


2 Wait until the set time disappears.

To check the time remaining until the shut-off time, press SLEEP while holding SHIFT.

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

Unique DVD/VCD Operations



Selecting the Audio Track (Semole) (NEO



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

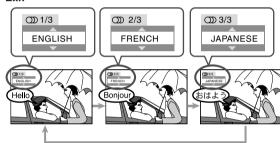
For DVD Audio: While playing back a track containing audio channels, you can select the audio channel to listen to. For DVD-VR and SVCD/VCD: When playing back a track, you can select the audio channel to play.

• You can also select the audio track using the on-screen bar (see page 23).



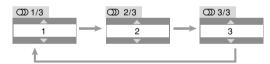
While playing a DVD Video...

Ex.:

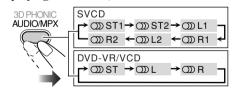


While playing a DVD Audio/DivX...

Ex.:



While playing a DVD-VR, or SVCD/VCD...



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

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

Selecting the Subtitle Language (Bendle)»)



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

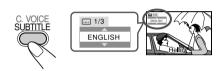
For DVD-VR: While playing, you can turn the subtitles on or off

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

• You can also select the subtitle language using the onscreen bar (see page 23).

While playing a DVD Video/DivX...

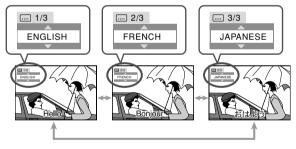
1



2



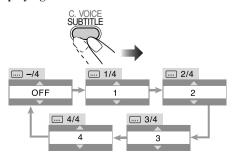
Ex.:



While playing a DVD-VR...



While playing an SVCD...



Selecting the View Angle Remote (NLY)

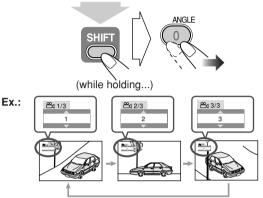




For DVD Video only: While playing back a chapter containing multi-view angles, you can view the same scene from different angles.

· You can also select the multi-view angles using the onscreen bar (see page 23).

While playing...

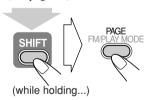


Selecting the Browsable Still Pictures [Selecting the Browsable Still Pictures | Selection | Pictures | Pic



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 automatically during playback.
- · You can also select the page using the on-screen bar (see page 23).



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

Playing Back Bonus Group (Remote ONLY)





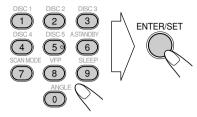
For DVD Audio only: Some DVD Audio discs have a special group called "bonus group" whose contents are not open to the public.

• To playback 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 10.

2 Enter the key number.



$\boldsymbol{3}$ Follow the interactive instructions shown on the screen.

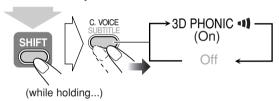
To cancel the key number entry, press ■.

Making Dialogues Clear—Clear Voice Remote (NLY)



When you playback a disc, you can use this function—Clear Voice. You can make the singer's voices or dialogues of the movie clear.

• This function only works when 3D Phonic is activated.



Special Effect Playback (Remote (NLY) (N)





Pause playback

To pause:	To resume normal playback:
While playing	DVD/CD

Frame-by-frame playback

1 While playing...



Still picture playback starts.

2 Advance the still picture frame by frame.



To resume normal playback, press DVD/CD ▶.

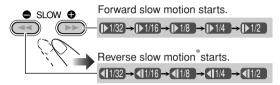
Slow-motion playback

- This does not function for MPEG-1/MPEG-2/ASF/DivX discs.
- 1 While playing...



Still picture playback starts.

2 Select slow motion speed.



*Only available for DVD Video.

To resume normal playback, press DVD/CD ▶.

To replay the previous scenes (One-Touch Replay)

• This function is only used while playing DVD Video/ DVD-VR.

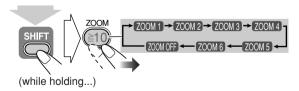
While playing back...



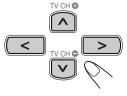
The playback position moves back about 10 seconds before the current position (only within the same title).

Zoom

- For JPEG, see page 28.
- **1** While playing back...

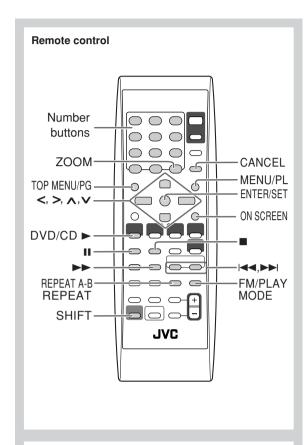


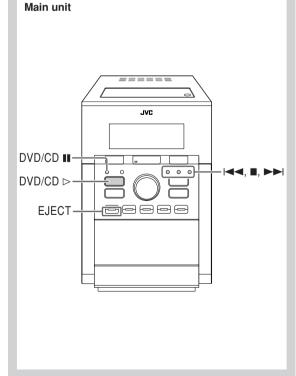
- · As the number increases, magnification also increases.
- **2** Move the zoomed-in position.



To cancel Zoom, press ZOOM (while holding SHIFT) repeatedly until "ZOOM OFF" appears on the TV.

Advanced Disc Operations



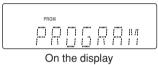


You can arrange the playing order of the chapters or tracks (up to 99) before you start playback.

- Program play cannot be used for DVD-VR/JPEG/ MPEG-1/MPEG-2/ASF/DivX.
- Resume does not work for Program Play.

1 Before starting playback, activate Program Play.







On the TV

2 Select chapters or tracks you want for Program Play.

- For DVD Video/DVD Audio/MP3/WMA:
- (1) Select a disc number.
- 2 Select a title or group number.
- 3 Select a chapter or track number.
- 4 Repeat the above steps 1 to 3.

• For SVCD/VCD/CD:

- (1) Select a disc number.
- Select tracks.
- 3 Repeat the above steps 1 and 2.

To enter the numbers directly:		
DISC 1 DISC 2 DISC 3 1 2 3 DISC 4 DISC 5 ASTANDBY 4 5 6 SCAN MODE VFP SLEEP 7 8 9 LINE QUIT LEVEL ANGLE 200M 10 0 210	Examples: To enter number 5, press 5. To enter number 10, press 10. To enter number 15, press ≥ 10 , 1, then 5. To enter number 30, press ≥ 10 , 3, then 0.	

3 Start playback.

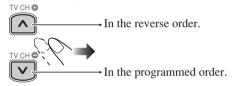


Playback starts in the order you have programmed.

To skip a step:	To pause:	To stop:
GROUP/TITLE SKIP	To release, press DVD/CD ▶.	

To check the programmed contents

Before or after playback...



• You can also use I◀◀ or ▶►I to check the programmed contents.

To modify the program

Before or after playback...

To erase the last track:	To erase the entire program:	To add another track to the program:
DISPLAY		Repeat step 2.

To exit from Program Play

Before or after playback...

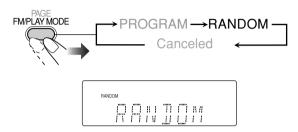


Playing at Random—Random Play (Semole)»)



You can play all chapters or tracks at random.

- Random Play cannot be used for DVD-VR/JPEG/ MPEG-1/MPEG-2/ASF/DivX and some DVDs.
- 1 Before starting playback, activate Random Play.



2 Start playback.



Playback starts in random order. Random Play ends when the entire disc has been played.

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

To exit from Random Play

Before or after playback...



Playing Repeatedly (Remote only) (INFO)







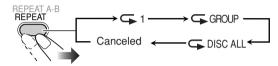
- You can also select the repeat mode using the on-screen bar (see pages 24 and 25).
- For MP3/WMA/JPEG/MPEG-1/MPEG-2/ASF/DivX, see page 28.

Repeat Play

You can repeat playback.

• For DVD Video/Audio:

While playing...



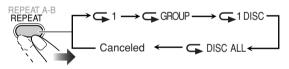
• For CD/SVCD/VCD:

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

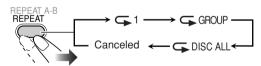


• For DVD-VR:

While playing an original program...



While playing a playlist...



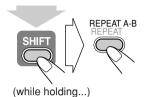
5 ,1	Repeats the current chapter/track.
Ç, GROUP	Repeats the current title (for DVD Video)/group (for DVD Audio)/title of PG or PL (for DVD-VR).
,1,DISC	Repeats the current disc.
C DISC ALL	Repeats all discs.

A-B Repeat

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

• A-B Repeat cannot be used for MP3/WMA/MPEG-1/ MPEG-2/ASF/DivX and for some DVDs.

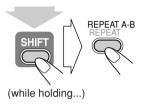
1 While playing (without PBC for SVCD/VCD), select the start point (A).



→ A- appears on the display.

• 🖒 A- appears on the TV if the TV is turned on

2 Select the end point (B).



ÇA-B appears on the display.

- 🖒 A-B appears on the TV.
- · You can search for the end point using the ▶▶ button.

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

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

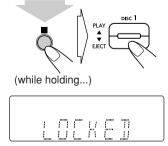
Prohibiting Disc Ejection—Child Lock



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

• This is possible only while the System is on standby.

While the disc trays are closed...

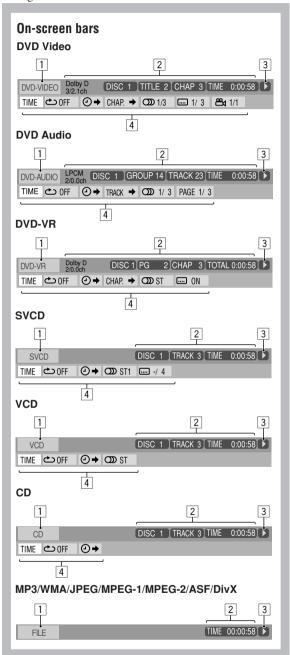


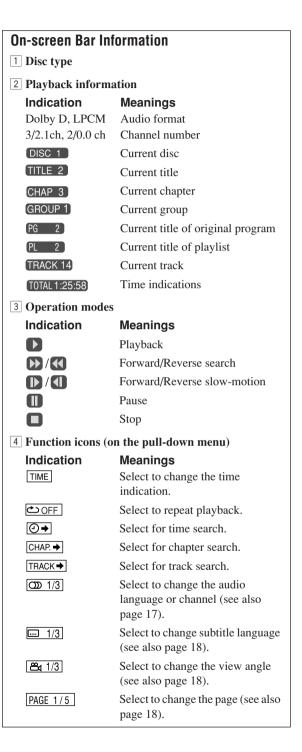
To cancel the prohibition, repeat the same procedure. "UNLOCKED" appears on the display.

On-screen Disc Operations (NFO) (NFO)



You can check the disc information and use some functions through the on-screen bar.



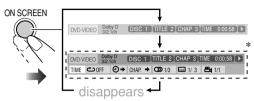


To operate using the On-screen Bar

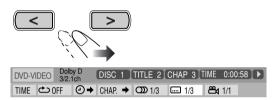
Ex.: Selecting a subtitle (French) for DVD Video

While a disc is selected as the source...

1 Display the entire on-screen bar.



- * This does not appear for MP3/WMA/JPEG/MPEG-1/ MPEG-2/ASF/DivX discs.
- **2** Select (highlight) the item you want.



3 Display the pop-up window.



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



5 Finish the setting.



Pop-up window disappears.

To remove the on-screen bar



For detailed operations of the following functions, see also "To operate using the On-screen Bar" on the left.

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



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



TIME	Elapsed playing time of the current chapter/track (except for DVD-VR).
REM	Remaining time of the current chapter/ track (except for DVD-VR).
TOTAL	Elapsed disc time.
T.REM	Remaining disc time.

To remove the on-screen bar

ON SCREEN

Repeat Play

- See also page 22.
- **1** While playing a disc (without PBC for SVCD/VCD), display the entire on-screen bar.
 - Repeat Play can be selected before starting playback, except for DVD Video/DVD-VR.
- 2 Select COFF.
- **3** Display the pop-up window.



4 Select the repeat mode you want.

-	
A-B	Repeats a desired portion (see below).
TITLE	Repeats the current title.
GROUP	Repeats the current group.
DISC	Repeats the current disc.
ALL	Repeats all discs (except for DVD).
CHAPTER*	Repeats the current chapter.
TRACK*	Repeats the current track.
PG	Repeats the current title of original program (for DVD-VR only) (see also page 22).
PL	Repeats the current title of playlist (for DVD-VR only) (see also page 22).
OFF	Cancels Repeat Play.

^{*}During Program Play and Random Play, "STEP" appears.

5 Finish the setting.

ENTER/SET



A-B Repeat

- See also page 22.
- 1 While playing, display the entire on-screen bar.
- 2 Select COFF.
- **3** Display the pop-up window.



4 Select "A-B."



5 Select the start point (A).





6 Select the end point (B).

ENTER/SET



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

 Before pressing ENTER/SET, you can search for the end point using the ►► button. **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 (without PBC for SVCD/VCD), display the entire on-screen bar.

- Time Search can be used before starting playback, except for DVD Video/DVD-VR.
- **2** Select **②** → .
- **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 mis-entry, press Cursor < to erase the last entry.
- **5** Finish the setting.



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

Chapter/Track Search

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

- 1 While playing, display the entire on-screen bar.
- 2 Select CHAP. → or TRACK → .
- 3 Display the pop-up window.



4 Enter the desired chapter/track number.



Examples:

To select chapter/track 5, press 5.

To select chapter/track 10, press 1, then 0.

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

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

• To correct a mis-entry, press the number keys until the desired number shown in the pop-up window.

5 Finish the setting.



The System starts playing the searched chapter or track.

Browsable Still Pictures

• See also page 18.

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.

- If a track is linked to browsable still pictures (B.S.P.), they are usually shown automatically during playback.
- 1 While playing a DVD Audio, display the entire onscreen bar.
- 2 Select PAGE 1/5.
- **3** Display the pop-up window.



4 Select a still picture you want.



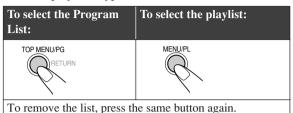
5 Finish the setting.

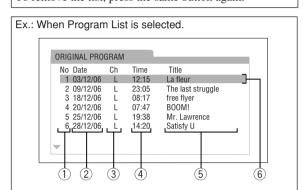


Control screen for DVD-R/-RW in DVD-VR format

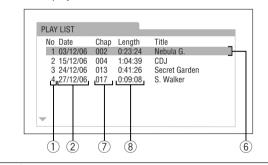
The control screen is superimposed on the TV screen when you call up Program List (PG) or playlist (PL).

To select playback type





Ex.: When playlist is selected.



- 1 Listed number
- 2 Recording date
- ③ Recording channels
- 4 Recording time
- 5 Title
- 6 Highlight bar (current selection)
- ⑦ Chapters included
- 8 Playback time

To select an item in the list and start playback



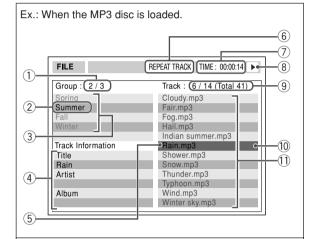
Operations on the Control Screen



You can search for and play the desired items through the control screen for MP3/WMA/JPEG/MPEG-1/MPEG-2/ASF/DivX discs.

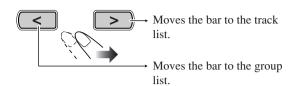
Control screen for MP3/WMA/JPEG/MPEG-1/ MPEG-2/ASF/DivX discs

The control screen automatically appears on the TV screen when you load an MP3, WMA JPEG, MPEG-1, MPEG-2, ASF or DivX disc.



- ① Current group number/total group number
- (2) Current group
- 3 Group list
- (4) Track information (ID3 Tag Version 1.0: only for MP3/WMA)
- (5) Current track
- 6 Repeat Play setting
- (Example 2) Elapsed playing time of the current track (except for JPEG)
- 8 Operation mode icon
- Current track number/total number of tracks in the current group (total number of tracks on the loaded disc)
- (10) Highlight bar
- ① Track list
- If files of different types (MP3, WMA, JPEG, MPEG-1, MPEG-2, ASF and DivX) are recorded on a disc, select the file type to play (see page 33).

To move the highlight bar between group list and track list



To select an item in the list



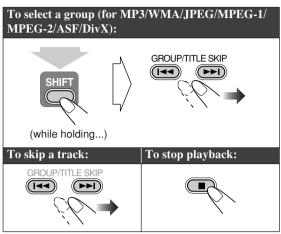
Move the highlight bar to the desired item.

 If you move the highlight bar while playing back an MP3/ WMA file or DVD-VR (PG/PL) disc, the selected track starts playback automatically.

To start playback

For JPEG:	
ENTER/SET	The selected track (still picture) is displayed until you change it.
DVD/CD	Slide-show playback starts. Each track (still picture) is shown on the screen for about 3 seconds, then changes one after another.
For the other files:	
ENTER/SET	Playback starts with the selected track. • Pressing DVD/CD ► also starts playback.

- Once you start playing back a JPEG/MPEG-1/MPEG-2/ ASF/DivX track, the control screen disappears.
- To cancel slide-show and display the current still picture, press II.



 You can select a group directly by pressing a number button after pressing GROUP/TITLE (except for DVD-VR disc).

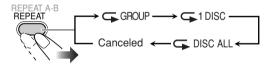
To repeat MP3/WMA playback

While playing or before playback...



To repeat slide-show for JPEG

While playing or before playback...



To repeat MPEG-1/MPEG-2/ASF/DivX playback

While playing or before playback...



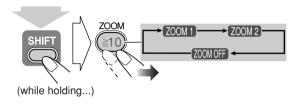
5 ,1	Repeats the current track.
Ģ, GROUP	Repeats the current group.
,1,DISC	Repeats the current disc.
,DISC,ALL	Repeats all discs.

To zoom in the JPEG files

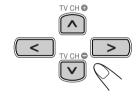
- You cannot zoom in the still picture during slide-show.
- For other discs, see page 19.

1 While playing back a still picture...

• During slide-show, press **II** to display the still picture, then...

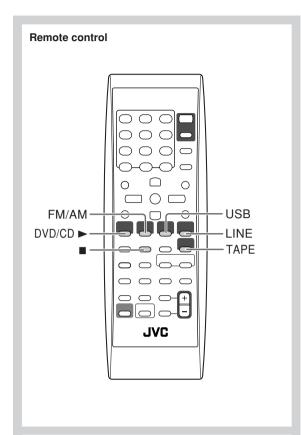


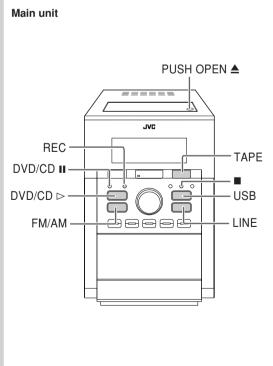
2 Move the zoomed-in position.



To cancel Zoom, press ZOOM (while holding SHIFT) repeatedly until "ZOOM OFF" appears on the TV.

Advanced Tape Operations





IMPORTANT

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

Recording on a Tape (NEO)

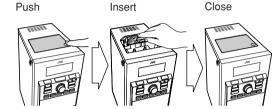






You can use type I tapes for recording.

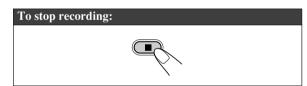
- To play a tape, see page 9.
- 1 Insert a recordable cassette.



With the tape side facing outside

- 2 Select and start playing the source—"FM," "AM," "DVD/CD," "USB," or "LINE."
 - When recording a disc, you can also use "Synchronized Disc Recording" (see page 30).
- **3** Start recording.





Synchronized Disc Recording NEO



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

To record the entire disc

1 Load a disc and insert a recordable cassette.

 If the current playing source is not the disc player, press DVD/CD ▶, then ■.

2 Start recording.



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

On the main unit

- When either disc play* or recording ends, both disc player and the cassette deck stop at the same time.
- * For DVD Video: When a title is finished playing.

To record Program Play

- 1 Select Program Play (and make a program), but do not start playback.
- 2 Press REC to start recording.
- When disc play stops, recording stops automatically.

To record only your favorite track

You can specify tracks to be recorded on the tape while listening to a disc (except for DVD Video/DVD-VR).

1 Start playing a disc.



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



On the main unit

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

3 Repeat steps 1 and 2 to record other tracks you want.

• You can change the disc if necessary.

To protect your recording

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

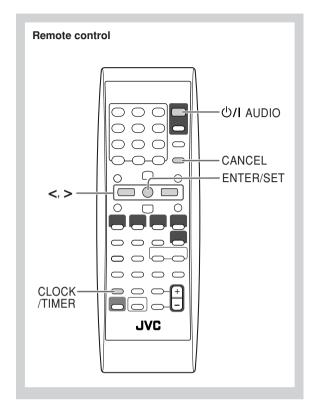
To protect your recording, remove these tabs.



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



Timer Operations



Setting the Timer Remote (NEO)







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

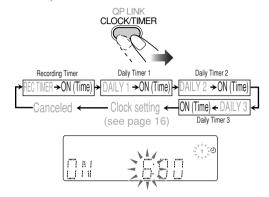
You can store three Daily Timer settings and one Recording Timer setting; however, you can activate only one of the timers at the same time.

- To exit from the timer setting, press CLOCK/TIMER as
- To correct a mis-entry during process, press CANCEL. You can go back to the previous step.

Recording Timer and Daily Timer initial settings when shipped from the factory

- REC TIMER: ON Time (6:00)/OFF Time (10:00)/ Source (TUNER FM 1)/Volume level (--)
- DAILY 1: ON Time (6:00)/OFF Time (8:00)/ Source (TUNER FM 1)/Volume level (--)
- DAILY 2: ON Time (12:00)/OFF Time (14:00)/ Source (TUNER FM 1)/Volume level (--)
- DAILY 3: ON Time (18:00)/OFF Time (20:00)/ Source (TUNER FM 1)/Volume level (--)

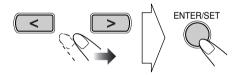
1 Select one of the timer setting modes you want to set— REC TIMER (Recording Timer) ON time, DAILY 1 ON time, DAILY 2 ON time or DAILY 3 ON time.



Ex. When Daily Timer 1 setting mode is selected

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

Repeat the procedure for the following settings until finished:

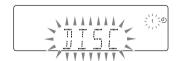


For Recording Timer:

- 1) Set the hour then the minute for on-time.
- Set the hour then the minute for off-time.
- Select the playback source—"TUNER-FM," "TUNER-AM," or "LINE IN."
- (4) For "TUNER-FM" and "TUNER-AM": Select a preset channel.
- **5** Select the volume level.
 - You can adjust the volume level ("0" to "40" and "VOL --"). If you select "VOL - -," the volume is set to the last level when the unit has been turned off.

For Daily Timers:

- 1) Set the hour then the minute for on-time.
- 2 Set the hour then the minute for off-time.
- 3 Select the playback source—"TUNER-FM," "TUNER-AM," "TAPE," "DISC," or "LINE IN."



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

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

(5) Select the volume level.

• You can adjust the volume level ("0" to "40" and "VOL — —").

If you select "VOL — —," the volume is set to the last level when the unit has been turned off.

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

- This function is not available for VCD with PBC activated.
- 3 Turn off the unit (on standby) if you have set the on-time.



How Daily Timer works

Once the Daily Timer has been set, the timer indicator (②) and timer number indicator (1/2/3) are lit on the display. Daily Timer is activated at the same time everyday until the timer is turned off manually (see the next column) or another timer is activated.

When the on-time comes

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

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

When the off-time comes

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

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

How Recording Timer works

When Recording Timer has been set, Timer (②) indicator and the REC indicator are lit on the display. Recording Timer works only once.

When the on-time comes

The System turns on, tunes in to the specified station or changes the source to "LINE", and starts recording.

When the off-time comes

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

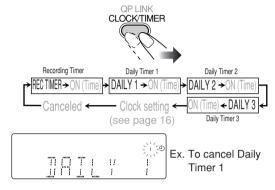
• The timer setting remains in memory until you change it.

To turn on or off the Timer

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

To cancel the Timer

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

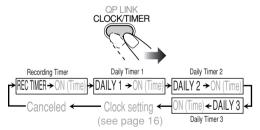


2 Turn off the selected Timer.



To turn on the Timer

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

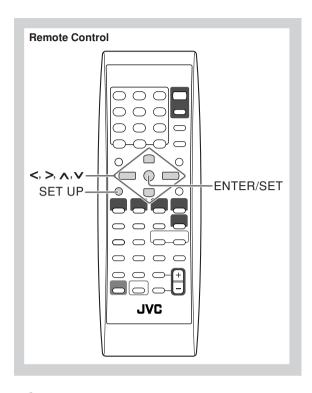


2 Activate the selected Timer.



3 Wait until the indication disappears.

Setup Menu Operations 🚥



Initial settings (Remote only)

The Setup Menu cannot be activated during playback.

1 Press SET UP.



- **2** Press < (or >)to select the menu.
- **3** Press \wedge (or \vee) to select the item.
- 4 Press ENTER/SET.
- 5 Press ∧ (or ∨) to select the options, then press ENTER/SET.
 - For settings of the LANGUAGE menu, see also "Language Code List" on page 39.

To remove a preference display Press SET UP.



LANGUAGE menu

Item	Contents
MENU LANGUAGE	You can select the initial menu language of the DVD Video.
AUDIO LANGUAGE	You can select the initial audio language of the DVD Video.
SUBTITLE	You can select the initial subtitle language of the DVD Video.
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 playback DVD Video discs recorded for
16:9 4:3 LB	wide-screen televisions. 16:9/16:9 MULTI (Wide television screen): For a wide-screen (16:9) 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. • For multi-color system TVs, select the [MULTI] option.
PICTURE SOURCE	You can obtain optimal picture quality by selecting the source type of the disc contents.
	AUTO: Normally, select this option. The System recognizes the picture type (film or video source) of the current disc according to the disc information.
	FILM: For a film source disc.
	VIDEO: For a video source disc.
SCREEN SAVER	You can set the screen saver function to ON or OFF . If no operation is done for about 5 minutes, the
	display dims.
FILE TYPE	You can select the file type to play.
	AUDIO: To play MP3/WMA files.
	STILL PICTURE: To play JPEG files.
	VIDEO: To play MPEG-1, MPEG-2, ASF and DivX files.



AUDIO menu

Item	Contents
DIGITAL AUDIO OUTPUT	Set this item correctly when using the DVD OPTICAL DIGITAL OUT terminal on the rear.
	PCM ONLY: When connecting to audio equipment which can decode only linear PCM signals.
	DOLBY DIGITAL/PCM: When connecting to a Dolby Digital decoder or an amplifier with a built-
	in Dolby Digital decoder.
	STREAM/PCM: When connecting to a DTS decoder or an amplifier with a built-in DTS 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 to a surround decoder.
	STEREO: Select this when connecting to a stereo receiver, MD player, TV, etc.
D.RANGE COMPRESSION	Set this item to listen to DVD Video recorded in Dolby Digital format at low or middle volume.
	AUTO: You can enjoy powerful playback sound with full dynamic range.
	ON: Select this when you want to fully apply the compression effect to make the sound at lower
	volume clear (useful at midnight).



OTHERS menu

Item	Contents
RESUME	You can select Resume. ON: The System resumes playback from the position where playback has been stopped if the disc is still in the disc tray.
	OFF: Resume is deactivated.
ON SCREEN GUIDE	Activate or 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 disc in which the Registration Code is recorded, the System's
	Registration Code is overwritten for copyright protection.

Additional Information

Learning More about This System



Connections (see pages 3 to 5)

- · 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.
- Use only speakers with the same speaker impedance as indicated by the speaker terminals on the rear of the System.
- · The speakers are magnetically shielded to avoid color distortions on TVs. However, if not installed properly, it may cause color distortions. So, pay attention to the following when installing the speakers.
- When placing the speakers near a TV set, turn off the TV's main power switch or unplug it before installing the
 - 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 instructions. If this happens, move the speakers away from the TV.
- When a portable audio device is connected to the LINE IN jack, sound will come out of the speakers and headphones. However, no sound will come out of the LINE OUT jack.

Daily Operations—Playback (see pages 7 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 will be erased in a few days. If this happens, preset the stations again.

Playing Back a Disc:

- On some DVD, SVCD, or VCD discs, the actual operations may be different from what is explained in this manual, due to the programming and disc structure; such differences are not a malfunction of this System.
- When discs* in more than one tray are loaded on the disc trays, they are played in sequence as follows. (When DVD Video, DVD Audio or SVCD/VCD with PBC is loaded in the System, playback of the disc next to these discs will not start.):
- Ex.: When DISC 2 is selected:
 - DISC 2⇒DISC 3⇒DISC 4⇒DISC 5⇒DISC 1⇒ (then stops)
- * When no disc is loaded on the disc tray, that disc number is skipped.

- · You can exchange discs while playing or selecting another disc.
- Some DVD Audio discs prohibit downmix. When you playback such a disc, "LR ONLY" appears on the display and the System plays back the left front and right front signals.
- When playing back a DVD Audio disc recorded in MLP (Meridian Lossless Packing; a lossless audio compression system that can completely recreate the PCM signal), the signals are recognized as the linear PCM signals, however, no indicator lights up on the display.
- This System can recognize up to 4 000 tracks in a disc. Also, the System can recognize up to 150 tracks per group and up to 99 groups in a disc.
 - If there are any unplayable files in a folder, those files are also counted in the total file number.
- Playable files which do not belong to any groups are handled as Group 1.
- For DVD-VR playback...
 - This System can play only a disc of UDF-Bridge format.
- For details about DVD-VR format and playlist, refer to the manual of the recording equipment.
- You cannot use reverse slow motion, Program Play, or Random Play.
- For MP3/WMA playback...
- MP3/WMA discs require a longer readout time than regular CDs. (It depends on the complexity of the group/ file configuration.)
- Some MP3/WMA files cannot be played back and will be skipped. This results from their recording processes and conditions.
- This System can play only a disc of ISO 9660 Level 1 or
- This System can playback MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- It is recommended that you make each MP3/WMA file at a sampling rate of 44.1 kHz and at a bit rate of 128 kbps. This System cannot playback files made at a bit rate of less than 64 kbps.
- For JPEG files playback...
- It is recommended that you record a file at 640 x 480 resolution. (If a file has been recorded at a resolution of more than 640 x 480, it will take a long time to be shown.)
- This System can play only baseline JPEG files*. Progressive JPEG files* or lossless JPEG files* cannot be played.

* Baseline JPEG format: Used for digital cameras, web, etc.

Progressive JPEG format: Used for web.

Lossless JPEG format: An old type and rarely used

now.

- This System can playback JPEG files with the extension code <.jpg> or <.jpeg> (regardless of the letter case upper/lower).
- This System may not playback JPEG files properly if they are recorded on a device other than a digital still camera.
- During slide-show playback, zoom cannot be operated.
- For MPEG-1/MPEG-2 playback...
 - 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 playback depending on file characteristics, kind of digital camera/ video camera, or recording conditions.
- You cannot use the following functions—One Touch Replay, Slow motion, A-B Repeat, Program Play and Random Play.
- For DivX playback...
 - This System can play only a disc of 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 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.
- You cannot use the following functions—One Touch Replay, Slow motion, A-B Repeat, Program Play, Random Play and on-screen operations.

Playing Back a Portable Audio Device:

 When QP Link fails due to a weak sound signal from the LINE IN jack, Auto Standby may turn the System off even if you can hear the sound from the speakers.

- In such cases, adjust the volume level of the component louder so that the System can detect the sound signal properly.
- Changing from LINE to another source while QP Link works will deactivate QP Link temporarily.
 In this case, the following reactivates QP Link:
 - Pressing QP LINK on the remote control.
- Unplugging the component from the LINE IN jack, then plugging it again.
- If you press STANDBY **6/1** to turn the System off or if preset Timer turns the System off while QP Link works, the System will deactivate QP Link temporarily.

In such cases, the following reactivates QP Link:

- When no sound signal comes from the LINE IN jack for about 30 seconds after the System is turned off.
- When you turn on the power again.
- QP Link may start working when you just plug in the component to the LINE IN jack or unplug it. This is not a malfunction.

Playing Back from the PC:

- Check if your PC equipped with the CD-ROM drive is running on Windows® 98*, Windows® 98SE*, Windows® Me*, Windows® 2000*, or Windows® XP* and prepare its CD-ROM.
- *Microsoft®, Windows® 98, Windows® 98SE, Windows® Me, Windows® 2000 and Windows® XP are registered trademarks of Microsoft corporation.
- DO NOT turn off the System or disconnect the USB cable while installing the drivers or until your PC has recognized the System.
- Use a full speed USB cable (version 1.1).
- If your PC does not recognize the System, disconnect the USB cable and connect it again. If this does not work, restart Windows.
- The drivers installed can be recognized only when the USB cable is connected between the System and your PC.
- The sound may not be played back correctly—interrupted or degraded—due to your PC settings or PC specifications.

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

Adjusting the Sound:

 This function also affects the sound through the headphones.

Changing the Scanning Mode:

- 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 system using a component video cord.

Setting the Clock:

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

Unique DVD/VCD Operations (see pages 17 to 19)

Selecting the Audio Track:

 On some DVD Video discs, you cannot change audio languages while playing back.

Special Effect Playback:

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

Advanced Disc Operations (see pages 20 to 28)

Programming the Playing Order—Program Play:

- While programming steps...
- You cannot eject any discs from the disc trays.
- Your entry will be ignored if you have tried to program an item number that does not exist (for example, selecting track 14 on a disc that only has 12 tracks).

Playing Repeatedly:

- When DVD Video or DVD Audio is loaded in this System, playback of the disc next to the DVD Video or DVD Audio will not start, although ♣ALL /REPEAT ALL on the TV screen or ♣ ALL in the display window is shown.
- A-B Repeat can be used within the same title while playing a DVD Video, and within the same track for the other discs.

On-screen Disc Operations:

• For DVD-R/-RW in the VR format, "PG" or "PL" appears instead of "TITLE" on the on-screen bar.

Operations on the Control Screen:

• If you press ON SCREEN on the remote control during playback, playback information appears on the TV screen.

Advanced Tape Operations (see pages 29 and 30)

Recording on a Tape:

- The recording level is automatically set correctly. Thus, you can adjust the sound you are actually listening to without affecting the recording level.
- There is leader tape which cannot be recorded onto at the start and end of cassette tapes. Thus, when recording CDs or radio broadcasts, wind the leader tape first to ensure that the recording will be made without any music part lost.
- If you start recording with no cassette inserted, "NO REC" appears on the display. If a protected tape has been inserted, "NO REC" appears.
- You cannot open or close the disc tray while recording a disc.
- Synchronized recording does not function on the file format of MPEG-1, MPEG-2, ASF, and DivX.

Timer Operations (see pages 31 and 32)

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 the 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.
- If you set DVD Video as the source, Daily Timer will not work correctly.

Timer Priority:

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

Setup Menu Operations (see pages 33 and 34)

• 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 while playing a disc. This depends on how the discs are recorded.
- When you select "16:9/16:9 MULTI" 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.



General:

Adjustments or settings are suddenly canceled before vou 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.

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

⇒ Select "4:3 LB/4:3 MULTI LB" for "MONITOR TYPE" (see page 33).

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 Playback Operations:

The disc does not play.

- ⇒ You have inserted a disc 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/WMA disc cannot be shown.

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

Groups and tracks are not played back as you expect.

⇒ The playing order is determined when the groups and tracks were recorded. It depends on the writing application.

MP3, WMA, JPEG, MPEG-1, MPEG-2, ASF or DivX files are not played back.

- ⇒ The disc may include different types of tracks (MP3/ WMA files, JPEG files and MPEG-1/MPEG-2/ASF/ DivX files). In this case, you can only playback the files selected by the "FILE TYPE" setting (see page 33).
- ⇒ You have changed the "FILE TYPE" setting after the System read the disc. In this case, reload the disc.

"NO AUDIO" appears.

⇒ This System cannot playback illegally produced DVD Audio discs.

"LR ONLY" appears.

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

The disc sound is discontinuous.

⇒ The disc is scratched or dirty.

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

⇒ Some DVDs are programmed to always display no subtitle initially. If this happens, press SUBTITLE after starting playback (see page 18).

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

⇒ Some DVDs are programmed to always use the original language initially. If this happens, press AUDIO/MPX after starting playback (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 in the display window (see page 22).

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.

USB Operations:

Unable to playback through the USB connection.

⇒ USB connection and setting is incorrect.

Playback stops.

- ⇒ Disconnect and connect the USB cable again.
- ⇒ Restart the music software on your PC.
- ⇒ Turn off and on the System.

Timer Operations:

Daily Timer does not work.

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

Daily Timer does not start playback.

- ⇒ The disc loaded is a DVD Video. Change the disc.
- ⇒ Title/group number and chapter/track number are not entered while setting the Daily Timer. Do not skip these steps when you want to play a disc using Daily Timer.

Language Code List

AA	Afar
AB	Abkhazian
AF	Afrikaans
AM	Ameharic
AR	Arabic
AS	Assamese
AY	Aymara
AZ	Azerbaijani
BA	Bashkir
BE	Byelorussian
BG	Bulgarian
BH	Bihari
BI	Bislama
BN	Bengali, Bangla
ВО	Tibetan
BR	Breton
CA	Catalan
CO	Corsican
CS	Czech
CY	Welsh
DA	Danish
DZ	Bhutani
EL	Greek
EO	Esperanto
ET	Estonian
EU	Basque

FA	Persian	KM
FI	Finnish	KN
FJ	Fiji	KO
FO	Faroese	KS
FY	Frisian	KU
GA	Irish	KY
GD	Scots Gaelic	LA
GL	Galician	LN
GN	Guarani	LO
GU	Gujarati	LT
HA	Hausa	LV
HI	Hindi	MG
HR	Croatian	MI
HU	Hungarian	MK
HY	Armenian	ML
IA	Interlingua	MN
IE	Interlingue	MO
IK	Inupiak	MR
IN	Indonesian	MS
IS	Icelandic	MT
IW	Hebrew	MY
JI	Yiddish	NA
JW	Javanese	NE
KA	Georgian	NL
KK	Kazakh	NO

KM	Cambodian	
KN	Kannada	
KO	Korean (KOR)	
KS	Kashmiri	
KU	Kurdish	
KY	Kirghiz	
LA	Latin	
LN	Lingala	
LO	Laothian	
LT	Lithuanian	
LV	Latvian, Lettish	
MG	Malagasy	
MI	Maori	
MK	Macedonian	
ML	Malayalam	
MN	Mongolian	
MO	Moldavian	
MR	Marathi	
MS	Malay (MAY)	
MT	Maltese	
MY	Burmese	
NA	Nauru	
NE	Nepali	
NL	Dutch	
NO	Norwegian	
OC	Occitan	

OM	(Afan) Oromo
OR	Oriya
PA	Panjabi
PL	Polish
PS	Pashto, Pushto
PT	Portuguese
QU	Quechua
RM	Rhaeto-Romance
RN	Kirundi
RO	Rumanian
RW	Kinyarwanda
SA	Sanskrit
SD	Sindhi
SG	Sangho
SH	Serbo-Croatian
SI	Singhalese
SK	Slovak
SL	Slovenian
SM	Samoan
SN	Shona
SO	Somali
SQ	Albanian
SR	Serbian
SS	Siswati
ST	Sesotho
SU	Sundanese

SV	Swedish
SW	Swahili
TA	Tamil
TE	Telugu
TG	Tajik
TH	Thai
TI	Tigrinya
TK	Turkmen
TL	Tagalog
TN	Setswana
TO	Tonga
TR	Turkish
TS	Tsonga
TT	Tatar
TW	Twi
UK	Ukrainian
UR	Urdu
UZ	Uzbek
VI	Vietnamese
VO	Volapuk
wo	Wolof
XH	Xhosa
YO	Yoruba
ZU	Zulu

Maintenance

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

KL

Greenlandic

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 temperature, and moisture.

To clean the disc:

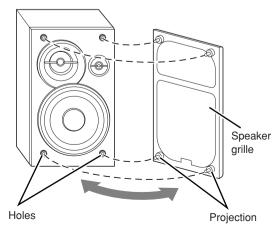
Wipe the disc with a soft cloth in a straight line from center to edge.

Cleaning the System

- Stains should be wiped off with a soft cloth. If the System
 is heavily stained, wipe it with a cloth soaked in waterdiluted neutral detergent and wrung well, then wipe clean
 with a dry cloth.
- Since the System may deteriorate in quality, become damaged or get its paint peeled off, be careful about the following:

- DO NOT wipe it with a hard cloth.
- DO NOT wipe it 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.

To remove the speaker grilles:

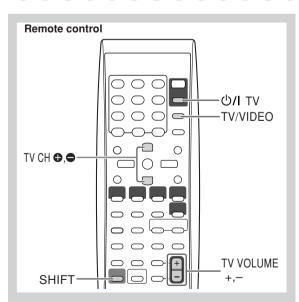


OPTICAL DIGITAL OUT Signals

DIGITAL AUDIO	Output Signals		
OUTPUT	Output Signais		
Playback disc	STREAM/PCM	DOLBY DIGITAL/PCM	PCM ONLY
DVD Video		•	
with 48 kHz, 16/20/24 bit Linear PCM		48 kHz, 16 bit Linear PCM*	
with 96 kHz, Linear PCM		48 kHz, 16 bit Linear PCM	
with Dolby Digital	Dolby Di	gital bitstream	48 kHz, 16 bit Linear PCM
with DTS	DTS bitstream	48 kHz, 16 bi	t Linear PCM
DVD Audio			
with 48/96/192 kHz, 16/20/24 bit Linear PCM	48 kHz, 16 bit Linear PCM*		
with 44.1/88.2/176.4 kHz, 16/20/24 bit Linear PCM	44.1 kHz, 16 bit Linear PCM*		
with Dolby Digital	Dolby Di	gital 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		oit Linear PCM
MP3/WMA/MPEG-1/MPEG-2/DivX	32/44.1/48 kHz, 16 bit Linear PCM		
ASF	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 DVD OPTICAL DIGITAL OUT terminal.

Operating JVC's TVs Using the Remote Control



You can use the remote control to operate JVC's TVs.

⊙/I ТV	Turn on/off TV.
While holding SHIFT,	press
TV CH ⊕, ⊕	Change the channels.
TV VOLUME +,-	Adjust the volume.
TV/VIDEO	Change the input mode.



Amplifier section—CA-UXG70

Output Power: 160 W (80 W+80 W) at 6 Ω (10% THD)

Audio Input LINE IN:

> $500 \text{ mV}/49 \text{ k}\Omega \text{ (at "L.IN LVL1")}$ $250 \text{ mV}/49 \text{ k}\Omega$ (at "L.IN LVL2") $125 \text{ mV}/49 \text{ k}\Omega \text{ (at "L.IN LVL3")}$

Audio OutputLINE OUT:

1.0 Vrms (3 k Ω) (at "L.OUT LVL1") 500 mVrms (1.5 k Ω) (at "L.OUT LVL2") SUBWOOFER OUT: $260 \text{ mVrms/}3.9 \text{ k}\Omega$ HEADPHONES OUT: $17 \text{ mW/} 32 \Omega$

Digital output: DVD OPTICAL DIGITAL OUT:

 $-21 \text{ dBm to } -15 \text{ dBm } (660 \text{ nm } \pm 30 \text{ nm})$

USB input: USB AUDIO

Video output:

Color system: NTSC or PAL(interlaced/progressive) VIDEO (composite): 1 V(p-p)/75 Ω S-VIDEO: Y (luminance) 1 V(p-p)/75 Ω

C (chrominance, burst)

NTSC $0.286 \text{ V(p-p)/75 }\Omega$ PAL. $0.3 \text{ V(p-p)/75 }\Omega$ COMPONENT: (Y) $1 \text{ V(p-p)/75 }\Omega$ (P_B/P_R) $0.7 \text{ V(p-p)/}75 \Omega$ $6\Omega - 16\Omega$ Speaker impedance: $16 \Omega - 1 k\Omega$ Headphone impedance:

Tuner section

87.5 MHz - 108.0 MHz FM tuning range:

AM (MW) tuning range:

531 kHz – 1 710 kHz (at 9 kHz intervals) 530 kHz – 1 710 kHz (at 10 kHz intervals)

Tape section

Frequency response: 60 Hz - 14 000 Hz Wow and flutter: 0.15 % (WRMS)

Disc player section

Playable disc: DVD Video/DVD Audio/CD/VCD/SVCD

CD-R/CD-RW (CD/SVCD/VCD/MP3/ WMA/JPEG/MPEG-1/MPEG-2/ASF/DivX

format)

DVD-R/-RW (DVD-VR/DVD Video/MP3/ WMA/JPEG/MPEG-1/MPEG-2/ASF/DivX

+R/+RW(DVD Video format) DVD-ROM (DVD Video format)

Dynamic range: 80 dBHorizontal resolution: 500 lines Wow and flutter: Immeasurable

General

Power requirement: $AC 240 V \sim ,50 Hz$

Power consumption: 95 W (at operation)

18 W (at standby)

3.9 W (at standby display OFF mode)

175 mm x 250 mm x 411 mm Dimensions (approx.): (W/H/D)

Mass (approx.): 7.9 kg

Speakers—SP-UXG70

Speaker units: Tweeter: 1.5 cm dome x 1 Squawker: 4 cm cone x 1

Woofer: 13.5 cm cone x 1

Impedance: 6Ω 166 mm x 250 mm x 232 mm Dimensions (approx.):

(W/H/D) Mass (approx.): 2.8 kg each

Supplied Accessories

See page 3.

Design and specifications are subject to change without

- · Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", "MLP lossless", and the double-D symbol are trademarks of Dolby Laboratories.
- "DTS" and "DTS 2.0+ Digital Out" are registered trademarks of Digital Theater Systems, Inc.
- "Official DivX® Certified product" "Plays all versions of DivX® video (including DivX[®] 6) with standard playback of DivX[®] media files" "DivX. DivX certified, and associated logos are trademarks of DivX. Inc. and are used under licence."
- USE OF THIS PRODUCT IN ANY MANNER THAT COMPLIES WITH THE MPEG-4 VISUAL STANDARD IS PROHIBITED, EXCEPT FOR USE BY A CONSUMER ENGAGING IN PERSONAL AND NON-COMMERCIAL ACTIVITIES.
- This product incorporates copyright protection technology that is protected by 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.
- "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."

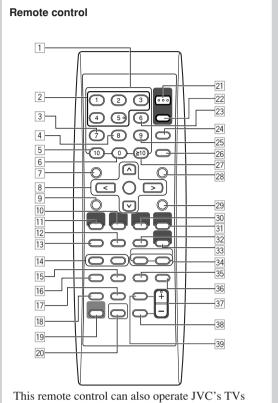
Parts Index

Remote control

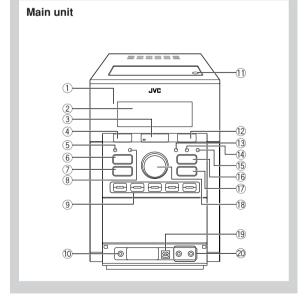
Button		Page
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Φ/I TV	22	40
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<u>-</u> ▶,∢	14	9, 11
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1	13	10, 19, 21, 27
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		:

Main unit

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USB AUDIO jack	19	12	
VOLUME + , -	(18)	13	



This remote control can also operate JVC's TVs (see page 40).



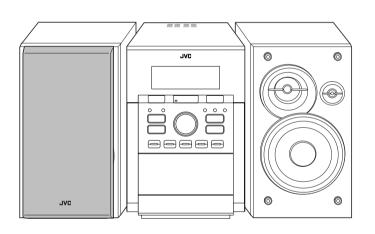
JVC

JVC



MICRO COMPONENT SYSTEM

UX-G70—Consists of CA-UXG70 and SP-UXG70















Digital Direct Progressive Scan MP3/WMA



Warnings, Cautions and Others

CAUTION— O/I (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 **O/I** (Standby/on) 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.

IMPORTANT FOR LASER PRODUCTS

- 1. CLASS 1 LASER PRODUCT
- 2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
- 3. CAUTION: Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.

CAUTION

- Do not block the ventilation openings or holes.

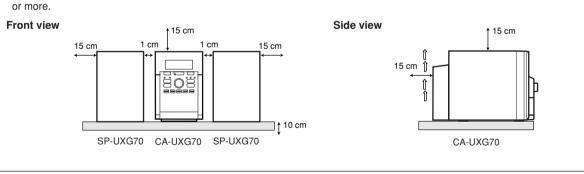
 (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
- Do not place any naked flame sources, such as lighted candles, on the apparatus.
- When discarding batteries, environmental problems must be considered and local rules or laws governing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

Caution: Proper Ventilation

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

1. Front: No obstructions and open spacing.

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





Introduction

Precautions



 Install the System in a location with adequate ventilation to prevent internal heat buildup in the System.



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

- 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 on the lenses inside the System in the following cases:

- · After starting to heat the room
- In a damp room
- If the System is brought directly from a cold to a warm place.

Should this occur, the System may malfunction. In this case, leave the System turned on for a few hours until the moisture evaporates, unplug the AC power cord, then plug it in again.

Internal heat

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



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

Others

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



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

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

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

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Playable Disc Types









MP3/WMA



Video CD







- CD-R/-RW: Recorded in the Audio CD, Video CD and SVCD formats. MP3, WMA and JPEG files written in accordance with the "ISO 9660" format can also be played.
- DVD-R/-RW, +R/+RW: Recorded in the DVD Video format. MP3, WMA and JPEG files written in the UDF bridge format can also be played.
- DVD-RW/-ROM: Recorded in the DVD Video Recording (VR) format.

In addition to the above discs, this System can playback audio data recorded on CD-Extra.

- The following discs cannot be played back: DVD-RAM, CD-I (CD-I Ready), CD-ROM, Photo CD, CD-G (CD-Graphics), and DVD/CD Text.
 - Playing back these discs will generate noise and damage the speakers.
- In this manual, "file" and "track" are interchangeably used for MP3/WMA/JPEG operations.
- It is possible to playback finalized +R/+RW (DVD format only) discs. "DVD" lights on the front display panel when a +R/+RW disc is loaded.

Note on Region Code

DVD players and DVDs have their own Region Code numbers. This System can playback only DVDs with Region Code numbers including "1."

EX.:









Audio formats

The System can playback the following digital audio formats.

LPCM (Linear PCM), DI DIGITAL (Dolby Digital),
 DTS (Digital Theater Systems), MLP (Meridian Lossless Packing)

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

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

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

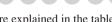
- Turn on the TV and select an appropriate input mode on the TV to view the pictures or on-screen displays.
- For disc playback, you can change the initial setting to your preference. See "Setup Menu Operations" on page 31.

If " O" appears on the TV screen when you press a button, the disc cannot perform the operation you have tried to do.

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).

R	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.
2 sec.	Indicates that you press and hold the button for a specified period.
	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.

"DVD Logo" is a trademark of DVD Format/Logo Licensing Corporation registered in the US, Japan and other countries.

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 the Non-DVD side of a DualDisc in this product is not recommended.

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 copyprotected disc. Connecting VIDEO OUT to an integrated TV/VCR system may also interfere with your viewing.

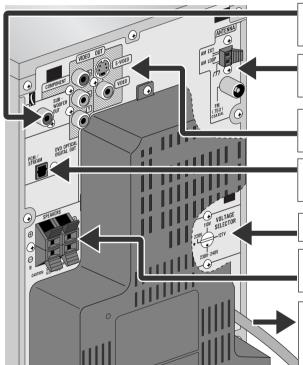
Supplied accessories

Check to be sure that you have all the following items.

- FM antenna (x1)
- AM loop antenna (x1)
- Composite video cord (x1)
- Core filters* (x2)
- Remote control (x1)
- Batteries (x2)
- AC plug adapter (x1)

If any item is missing, consult your dealer immediately.

Rear panel



1 From the powered subwoofer See page 4.

2 From AM/FM antenna See page 4.

3 From the input of TV/monitor See page 4.

4 From the digital input of digital audio component See page 4.

Voltage selector: See page 5.

5 From the speakers See page 5.

6 To a wall outlet

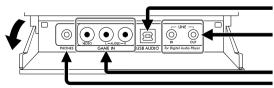
Plug in the AC power cord only after all connections are complete.

• If the wall outlet does not match the AC plug, use the supplied AC plug adapter.

3

Front panel

Pull down the cover until you hear a clicking sound.



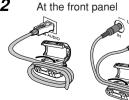
• From the PC: See page 12.

From the portable audio device: See page 5.

From the video game: See page 12. From the headphones: See page 7.

*Attaching the core filter to the USB cable, LINE IN and LINE OUT cable to reduce interference





Wind firmly the USB cable twice. Wind firmly the LINE IN and LINE OUT cable once.

- Keep close between the plug and the core filter.
- Do not damage the cable by applying excessive force when winding.



Close the core filter until you hear a clicking sound.

1 Powered subwoofer

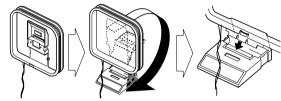


The subwoofer connected can reproduce the bass sounds recorded in front left and right channels, but cannot reproduce the LFE signals in DVD multi-channel discs.

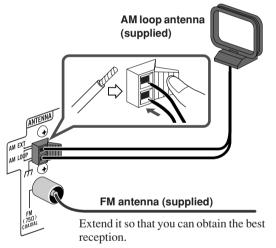
• Before plugging the unit to the main supply, make sure that the powered subwoofer is turned off.

2 AM/FM antenna

To assemble the AM loop antenna

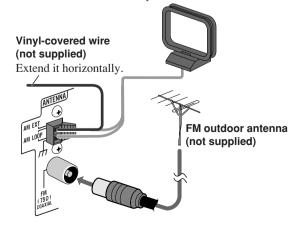


To connect AM/FM antenna



For better AM/FM reception

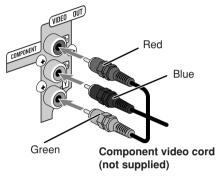
AM loop antenna (supplied) Keep it connected.



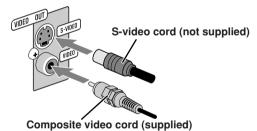
• Disconnect the supplied FM antenna, and connect to an outdoor FM antenna using a 75 Ω wire with coaxial type connector (IEC or DIN45325).

3 TV/monitor

Connect only component cord at one time.

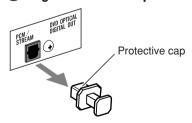


• To select progressive scanning mode (see page 15), use COMPONENT jacks.



 After connecting a TV, select the proper video signal mode according to the connection method. See "Changing the Scanning Mode" on page 15.

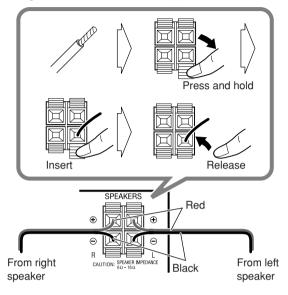
4 Digital audio component



- Set "DIGITAL AUDIO OUTPUT" in the "AUDIO" menu correctly according to the connected digital audio equipment (see page 32). If the setting is incorrect, loud noise may be generated causing damage to the speakers.
- Digital audio signals are output from this System only when "DVD/CD" is selected as the source.

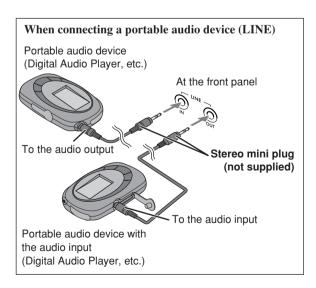
Speakers

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





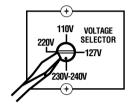
- DO NOT connect more than one speaker to each terminal.
- DO NOT push or pull the speakers as this will damage the foot spacers at the bottom of the speakers.



- By using QP Link (Quick Portable Link), you can easily start playing back a portable audio device on this unit when connecting it to the LINE IN jack. See page 11 for details.
- Connect an audio component to the LINE OUT jack if the component is not equipped with a digital input terminal.
- If an external device is not equipped with a stereo mini plug audio output, use a plug adaptor to convert the stereo mini plug to the corresponding plug of the audio output.

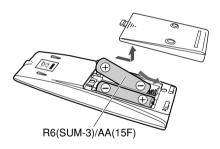
Before plugging in the System

Set the correct voltage for your area with the voltage selector on the rear.



Use a screwdriver to set the voltage selector to the same voltage as where you are plugging in the unit. (See also the back cover page.)

Preparing the remote control



• Dispose of batteries in the proper manner, according to federal, state, and local regulations.



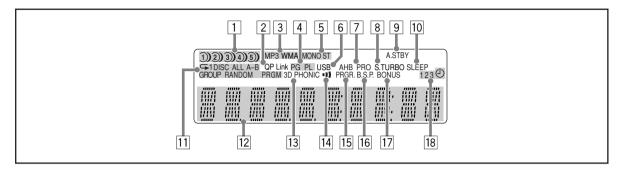
DO NOT recharge, short, disassemble, heat the battery or dispose of it in a fire.

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.

Display Indicators

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 Disc tray indicators

- 1–5: Disc tray number indicators.
- -Flashing while the disc tray is open.
- \supset (disc tray indicator):
 - -Lights when the disc is detected.
 - -Flashing while playing back a disc or the disc tray is open.
- -Disappears when there is no disc in the tray.
-): Lights to indicate the current selected disc.
- 2 QP Link (Quick Portable Link) indicator
 - · Lights when QP Link is activated.
- 3 Audio file format indicators
 - MP3: lights when an MP3 track is detected.
 - WMA: lights when a WMA track is detected.
- 4 PG/PL indicators
 - PG: lights when a DVD-VR formatted disc is called up.
 - PL: lights when a playlist recorded on a DVD-VR formatted disc is called up.
- 5 FM reception indicators
 - MONO: lights while receiving an FM stereo station in monaural.
 - ST (stereo): lights while an FM stereo station with sufficient signal strength is tuned in.
- 6 USB indicator
 - Lights when "USB" is selected as the source.
- 7 AHB PRO indicator
 - Lights when Active Hyper Bass Pro is activated.
- 8 S.TURBO (Sound Turbo) indicator
 - Lights when Sound Turbo II is activated.
- 9 A.STBY (Auto Standby) indicator
 - Lights when Auto Standby is activated.
 - Flashes for about 3 minutes before Auto Standby turns the System off.
- 10 SLEEP indicator
 - Lights when the Sleep Timer is activated.

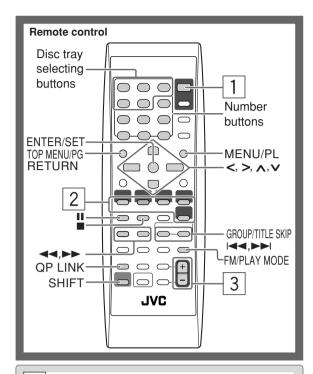
11 Playback mode indicators

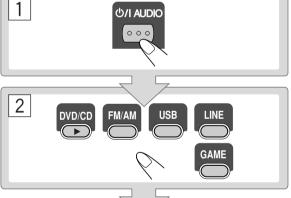
- PRGM: lights when Program Play is activated.
- RANDOM: lights when Random Play is activated.
- **⇐** (repeat)1 DISC A-B ALL GROUP:
- ←, GROUP: lights when Group Repeat is activated.
- ←,1,DISC: lights when One Disc Repeat is activated.
- ←,DISC,ALL: lights when All Disc Repeat is activated.
- ←,A-B: lights when A-B Repeat is activated.

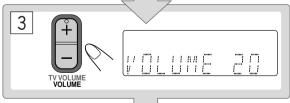
12 Main display

- While listening to radio: Band (or preset number) and station frequency appear.
- While selecting "LINE": "LINE" appears.
- While selecting "USB": "USB AUDIO" appears.
- While selecting "GAME": "G1 SPORT," "G2 RPG," "G3 ACT," "G4 NIGHT" or "G5 MANUAL" appears (depending on the setting).
- While playing a disc: current status appears.
- 13 3D PHONIC indicator
 - Lights when 3D Phonic is activated.
- (Clear Voice) indicator
 - · Lights when Clear Voice is activated.
- 15 PRGR. (Progressive) indicator
 - Lights when the progressive scanning mode is selected.
- 16 B.S.P. (Browsable Still Picture) indicator
 - Lights when Browsable Still Pictures are detected while playing a DVD Audio disc.
- 17 BONUS indicator
 - Lights when a DVD Audio disc with a bonus group is detected.
- 18 Daily Timer indicators
 - 1/2/3: lights when a Daily Timer (1, 2, or 3) is on standby; flashes while working or being set.
 - ②: lights when Daily Timer is on standby or is being set.

Daily Operations—Playback









In this manual, 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 turns on by pressing one of the source buttons.
- The System turns on and changes the source to LINE by starting playback on an external device when QP Link is activated. (See page 11 for details.)

2 Select the source.

Playback automatically starts if the selected source is ready.

- If you press LINE, start playback on the external component.
- If you press GAME, turn on the video game connected to the System.
- 3 Adjust the volume.
- 4 Operate the target source as explained later.

To turn off (standby) the unit



The STANDBY lamp on the main unit lights in red.

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

You can reduce power consumption by pressing DISPLAY to turn the display off while on standby.

• When the display is turned off, QP Link does not work.

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.

Listening to the Radio (NEO

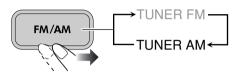


To set the AM tuner interval spacing

Before operating the tuner, it is required to select the appropriate AM space interval used for your area.

• This is possible only while the System is on standby.

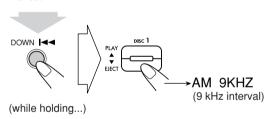
1 Select the AM band.

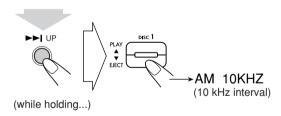


2 Turn off the power.

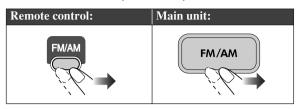


3 Select the appropriate AM space interval for your area.





To select the band (FM or AM)



To tune in to a station

While FM or AM is selected...

Remote control:	Main unit:
2 sec. GROUP/TITLE SKIP	2 sec.

Frequency starts changing on the display.

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

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

To stop searching manually, press either button.

If the FM station has poor reception





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

To preset the stations Remote (NLY)



You can preset 30 FM and 15 AM stations.

1 Tune in to a station you want to preset.

- You can also store the monaural reception mode for FM preset stations if selected.
- **2** Activate the preset number entry mode.





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



Examples:

To select preset number 5, press

To select preset number 10, press

To select preset number 15, press $\ge 10, 1, \text{ then } 5.$

To select preset number 30, press $\ge 10, 3, \text{ then } 0.$

- You can also use the ▶▶ or ◀◀ button.
- **4** Store the station.

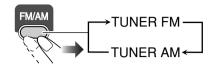




To tune in to a preset station (SOLLY)



1 Select the band (FM or AM).



2 Select the preset number for the station you stored.



Examples:

To select preset number 5, press

To select preset number 10, press

To select preset number 15, press $\ge 10, 1, \text{ then } 5.$

To select preset number 30, press $\ge 10, 3, \text{ then } 0.$

• You can also use the ▶▶ or ◀◀ button.

Playing Back a Disc (NEO)

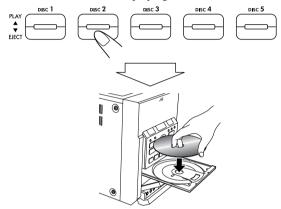


Before operating a disc, be familiar how a disc is recorded.

- DVD Video/DVD-VR comprises of "Titles" which includes "Chapters," DVD Audio/MP3/WMA/JPEG comprises of "Groups" which includes "Tracks," JPEG comprises of "Groups" which includes "Files," and CD/SVCD/VCD comprises of only "Tracks."
- For playback of MP3/WMA/JPEG, see also page 27.

To insert a disc

You can insert a disc while playing another source.



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

To close the disc tray, press the upper part of the same button. The tray closes and playback starts.

- When current selected disc tray is open, you can use DVD/CD ► to close the disc tray and start playback (depending on how the disc is programmed internally).
- While one of the trays is open, the tray closes automatically by pressing down EJECT for the next tray, then the next tray comes out.

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

• While playing DVD/SVCD/VCD/MP3/WMA: This System can store the stop point, and when you start playback again by pressing DVD/CD ► (even while on standby), it starts from the position where you have stopped—Resume Play. ("RESUME" appears on the display when you stop playback.)

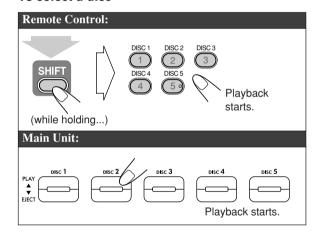
To stop completely while Resume is activated, press ■ twice. (To cancel Resume, see "RESUME" on page 32.)

• When operating the System, the on-screen guide icon (see the following table) appears on the TV.

On-screen guide icons

- During DVD Video playback, the following icons may appear on the TV:
 - At the beginning of a scene containing multi-angle views.
 - At the beginning of a scene containing multi-audio sounds.
 - At the beginning of a scene containing multi-subtitles.
- The following icons will be also shown on the TV to indicate your current operation.
 - \square , \square , \square , \square , \square , \square
- To deactivate the on-screen guide icons, see "ON SCREEN GUIDE" on page 32.

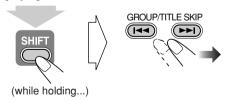
To select a disc



To select a title/group



While playing a disc...



- You can select a title/group directly by pressing a number button after pressing GROUP/TITLE (except for DVD-VR disc)
- Group name appears for MP3/WMA playback.

To select a chapter/track

• For VCD/SVCD, cancel PBC (see the next page). While playing a disc...

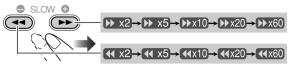


• First time you press ►, you will go back to the beginning of the current chapter/track.

To locate a particular portion Remote (NILT)



While playing a disc...



- Search speed changes as illustrated above except for MP3/ WMA discs. For MP3/WMA discs, search speed and the indications on the TV are different.
- · No sound comes out if searching is carried out while showing the moving picture.

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

To locate an item directly



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

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



Examples:

To select number 5, press 5. To select number 10, press 10. To select number 15, press ≥ 10 , 1. then 5.

To select number 30, press ≥ 10 , 3, then 0.

To playback using the disc menu

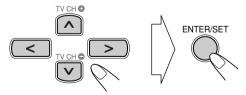


■ For DVD Video/DVD Audio:

1 Show the disc menu.



2 Select an item on the disc menu.



· With some discs, you can also select items by entering the number using the number buttons.

■ For SVCD/VCD with PBC:

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

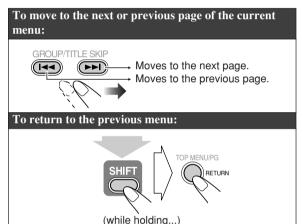
When disc menu appears on the TV, select an item on the menu. Playback of the selected item starts.



Examples:

To select number 5, press 5. To select number 10, press 10. To select number 15, press ≥ 10 , 1, then 5.

To select number 30, press ≥ 10 , 3. then 0.



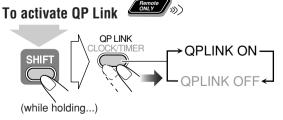
To cancel PBC, press ■, then select a track. Playback starts with the selected track.

To reactivate PBC, press ■ (twice if Resume is turned "ON"), then press DVD/CD ▶.

Playing Back a Portable Audio Device (NEO)

By using QP Link (Quick Portable Link), you can easily start playing back a portable audio device connected to the LINE IN jack (see page 5).

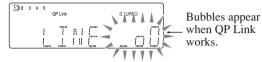
• Make sure to set the volume of your portable audio device loud enough so that the System can detect the sound signal.



When QP Link is activated, connecting a portable device to the LINE IN jack and starting playback performs the following:

- While listening to another source...
- Changes the source to LINE automatically. (If you change from LINE to another source, QP link will be canceled.)
- While the System is on standby...

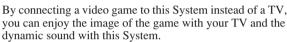
Turns on the System and activates the LINE source automatically (except when the display is turned off).



While QP Link plays back the device...

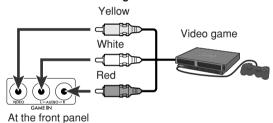


Enjoying a video game (NEO)



• Refer also to the manual of your video game and TV.

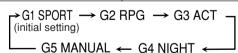
To connect the video game



To enjoy powerful game sound

You can enjoy the sound effect for the genre or scene of the game by selecting one of the settings below.

Remote control:	Main unit:
GAME	GAME



G1 SPORT	For sport game (initial setting).
G2 RPG	For RPG.
G3 ACT	For action game.
G4 NIGHT	For enjoying powerful game sound with low sound level.
G5 MANUAL	You can adjust the bass and treble level manually with this setting. See "To adjust the tone" on page 13 for how to adjust it.

Playing Back from the PC (NEO)



This System is equipped with a USB AUDIO terminal on the front panel. You can connect your PC to this terminal and enjoy sound reproduced through your PC.

When you connect your PC for the first time, follow the procedure below.

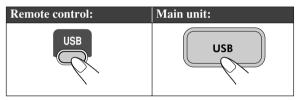
 Remember you cannot send any signal or data to your PC from this System.

IMPORTANT

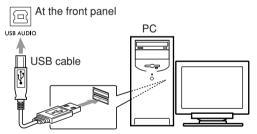
 Always set volume to "VOL MIN" when connecting or disconnecting the other equipment.

How to install the USB drivers

- 1 Turn on your PC and start running Windows® 98*, Windows® 98SE*, Windows® Me*, Windows® 2000*, or Windows® XP*.
 - If the PC has been turned on, quit all the applications running.
- 2 Select "USB" as the source.



3 Connect the System to the PC using a USB cable (not supplied).



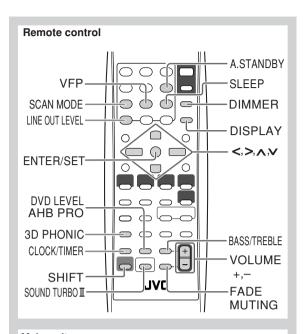
- Use "USB series A plug to B plug" cable less than 3 m.
- **4** The USB drivers are installed automatically.

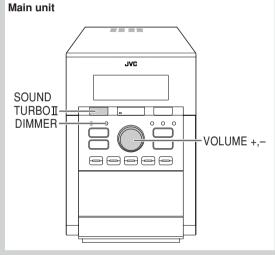
To playback sound on the PC

Refer to the manuals supplied with the sound reproduction application installed in the PC.

- Noise and static electricity may stop the sound through the USB connection. In this case, do the following operations:
- Disconnect and connect the USB cable again
- Restart the music software on your PC
- Turn off and on the System
- * Microsoft®, Windows® 98, Windows® 98SE, Windows® Me, Windows® 2000 and Windows® XP are registered trademarks of Microsoft corporation.

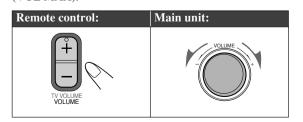
Daily Operations—Sound & Other Adjustments





Adjusting the Volume





To drop the volume in a moment





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

Adjusting the Sound (NEO)



To reinforce the heavy sound

This boosts the low and high frequency sound—Sound Turbo II.



· When Sound Turbo II is turned on, AHB Pro is automatically turned on, and cannot be turned off. (AHB PRO indicator does not light even though the function is turned on.)

To reinforce the bass sound (NEV) (NEV)



While Sound Turbo II is off, the richness and fullness of the bass sound is clearly maintained regardless of how you set the volume—Active Hyper Bass Pro.



• When Sound Turbo II is turned on, AHB Pro setting cannot be changed.

To adjust the tone Remote (NLY)



You can adjust the bass and treble level from -3 to +3.

To adjust the bass



To adjust the treble



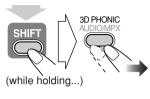
Creating 3-dimentional Sound Field







While playing a disc...



	3D PHONIC	ACTION	 →	3D PHONIC	DRAMA	Н
L	3D PHONIC	OFF	-	3D PHONIC	THEATER	┢┩

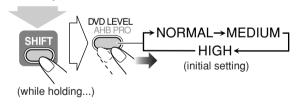
• The selected mode can only be shown on the TV.

	<u> </u>
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 W

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 only functions for DVD Video.

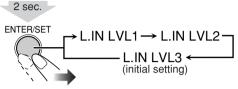


NORMAL	Original recording level.	
MEDIUM	Output level is increased (less than "HIGH").	
HIGH	Output level is increased (more than "MEDIUM"). (initial setting)	

Adjusting the Audio Input Level (Source) (Source)



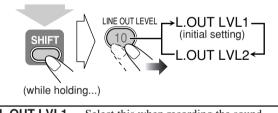
If the sound from the component connected to the LINE IN jack is too loud or is too quiet when changing from another source to LINE, you can change the audio input level through the LINE IN jack (without changing the volume level).



L.IN LVL1	Select this when the sound is too loud with "L.IN LVL 2" selected. This setting is recommended when connecting an audio device other than a portable audio device to the LINE IN jack.
L.IN LVL2	Select this when the sound is too loud with "L.IN LVL 3" selected.
L.IN LVL3	Select this when listening to a portable audio device (initial setting).



If the recorded sound on the device connected to the LINE OUT jack is too loud or too quiet, you can change the audio output level through the LINE OUT jack (without changing the volume level).



L.OUI LVLI	with a portable audio device (initial setting).
L.OUT LVL2	Select this when the recorded sound is
	too loud with "L.OUT LVL 1" selected.

Changing the Display Brightness



You can dim the display window.



DIMMER ON Dims the display.

AUTO DIM*

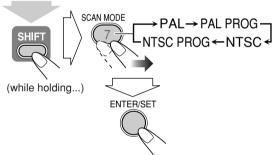
Removes the display illumination when starting playback a disc with a video

• The display illuminates when playback stops.

Changing the Scanning Mode (Source) (NFO)



This System supports progressive scanning. Select the video signal mode according to the type of your TV. If you connect a progressive TV through the VIDEO OUT jacks, you can enjoy a high quality picture from the built-in DVD player by selecting "NTSC PROG" or "PAL PROG."



	`
NTSC	Select for a conventional NTSC TV.
NTSC PROG	Select for a progressive NTSC TV. Select to enjoy a progressive scanned picture through the Video Component out terminal.
PAL	Select for a conventional PAL TV.
PAL PROG	Select for a progressive PAL TV. Select to enjoy a progressive scanned picture through the Video Component out terminal.

Changing the Picture Tone (Remote only)

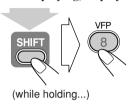




· While showing a playback picture on the TV, you can select a preset picture tone, or adjust it and store your own

To select a preset picture tone

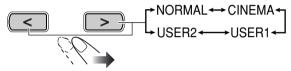
1 While playing, display VFP setting screen.





On the TV

2 Select a preset picture tone.

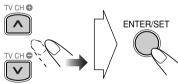


NORMAL	Normally select this.
CINEMA	Suitable for a movie source.
USER1/USER2	You can adjust parameters and can store the settings.

To remove the screen, press VFP again while holding SHIFT, or wait for more than 5 seconds.

To adjust the picture tone

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

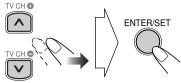


GAMMA	Adjust if the neutral color is bright or dark $(-3 \text{ to } +3)$.
BRIGHTNESS	Adjust if the entire picture is bright or dark $(-8 \text{ to } +8)$.
CONTRAST	Adjust if the far and near positions are unnatural (–7 to +7).
SATURATION	Adjust if the picture is whitish or blackish (–7 to +7).
TINT	Adjust if the human skin color is unnatural (–7 to +7).
SHARPNESS	Adjust if the picture is indistinct (-8 to +8).

Continued on the next page

^{* &}quot;AUTO DIM" does not work for CD/MP3/WMA.

3 Adjust the parameter.



4 Repeat steps 2 to 3 to adjust other parameters.

To remove the screen, press VFP again while holding SHIFT, or wait for more than 5 seconds.

Setting the Clock ONLY »> INFO





Without setting the built-in clock, you cannot use Daily Timers (see page 29) and Sleep Timer.

• To correct a mis-entry during the process, press CANCEL or CLOCK/TIMER. You can return to the previous step.

1 Activate the clock setting mode.

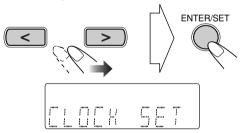




· If you have already adjusted the clock before, press the button repeatedly until the clock setting mode is selected.

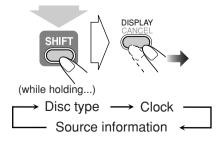
2 Set the time.

• Adjust the hour and press ENTER/SET, then adjust the minute and press ENTER/SET.



Now the built-in clock starts working.

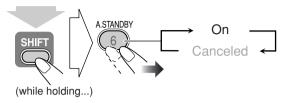
To check the current clock time during play



Turning Off the Power Automatically &



Auto Standby



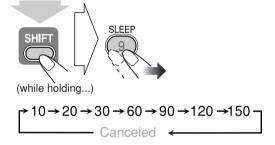
When Auto Standby is in use, the A.STBY indicator lights on the display.

When disc play stops, the A.STBY indicator starts flashing. If no operation is done for about 3 minutes while the indicator is flashing, the System turns off (on standby) automatically.

Sleep Timer

You can set the shut-off time so that you can go to bed without turning it off yourself.

1 Specify the time (in minutes).

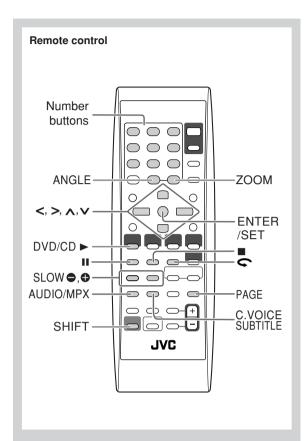


2 Wait until the set time disappears.

To check the time remaining until the shut-off time, press SLEEP while holding SHIFT.

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

Unique DVD/VCD Operations



Selecting the Audio Track (Remote ONLY) »> (NEO

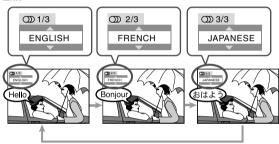


For DVD Video: While playing back a chapter containing audio languages, you can select the language to listen to. For DVD Audio: While playing back a track containing audio channels, you can select the audio channel to listen to. For DVD-VR and SVCD/VCD: When playing back a track, you can select the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

• You can also select the audio track using the on-screen bar (see page 23).

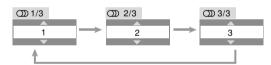


While playing a DVD Video...

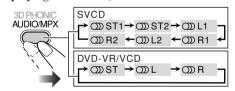


While playing a DVD Audio...

Ex.:



While playing a DVD-VR, or SVCD/VCD...

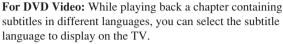


ST1/ST2/ To listen to normal stereo (2-channel) playback. ST L1/L2/L To listen to the left audio channel. R1/R2/R To listen to the right audio channel.

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

Selecting the Subtitle Language (Solly) (Selecting the Subtitle Language (Solly) (Selecting the Subtitle Language (Selecting the Selecting the





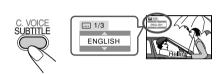
For DVD-VR: While playing, you can turn the subtitles on or off

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

• You can also select the subtitle language using the onscreen bar (see page 23).

While playing a DVD Video...

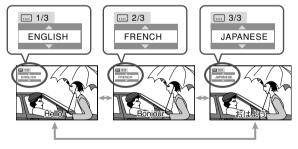
1



2



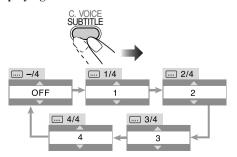
Ex.:



While playing a DVD-VR...



While playing an SVCD...



Selecting the View Angle Remote (NLY)

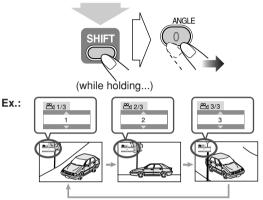




For DVD Video only: While playing back a chapter containing multi-view angles, you can view the same scene from different angles.

· You can also select the multi-view angles using the onscreen bar (see page 23).

While playing...

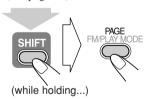


Selecting the Browsable Still Pictures [Selecting the Browsable Still Pictures | Selection | Pictures | Pic



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 automatically during playback.
- · You can also select the page using the on-screen bar (see page 23).



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

Playing Back Bonus Group (Remote ONLY)





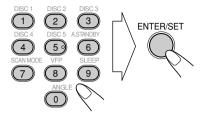
For DVD Audio only: Some DVD Audio discs have a special group called "bonus group" whose contents are not open to the public.

• To playback 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 10.

2 Enter the key number.



3 Follow the interactive instructions shown on the screen.

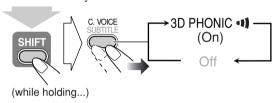
To cancel the key number entry, press ■.

Making Dialogues Clear—Clear Voice Remote Solly



When you playback a disc, you can use this function—Clear Voice. You can make the singer's voices or dialogues of the movie clear.

• This function only works when 3D Phonic is activated.



Special Effect Playback (Remote only)





Pause playback

To pause:	To resume normal playback:
While playing	DVD/CD

Frame-by-frame playback

1 While playing...



Still picture playback starts.

2 Advance the still picture frame by frame.



To resume normal playback, press DVD/CD ▶.

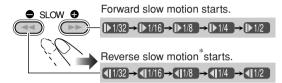
Slow-motion playback

1 While playing...



Still picture playback starts.

2 Select slow motion speed.



*Only available for DVD Video.

To resume normal playback, press DVD/CD ▶.

To replay the previous scenes (One-Touch Replay)

• This function is only used while playing DVD Video/ DVD-VR.

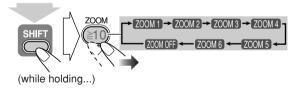
While playing back..



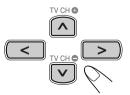
The playback position moves back about 10 seconds before the current position (only within the same title).

700m

- For JPEG, see page 28.
- **1** While playing back...

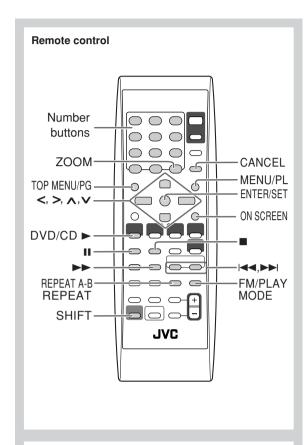


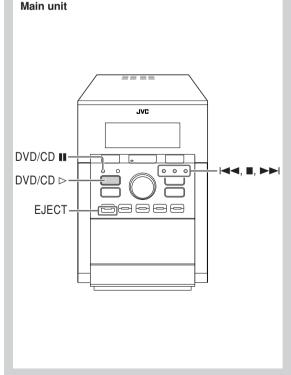
- As the number increases, magnification also increases.
- **2** Move the zoomed-in position.



To cancel Zoom, press ZOOM (while holding SHIFT) repeatedly until "ZOOM OFF" appears on the TV.

Advanced Disc Operations





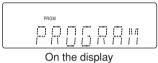
Programming the Playing Order— Program Play (Remote >>>> (NFO)

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

- Program play cannot be used for DVD-VR/JPEG.
- Resume does not work for Program Play.

1 Before starting playback, activate Program Play.







On the TV

- 2 Select chapters or tracks you want for Program Play.
 - For DVD Video/DVD Audio/MP3/WMA:
 - (1) Select a disc number.
 - ② Select a title or group number.
 - 3 Select a chapter or track number.
 - 4 Repeat the above steps 1 to 3.

• For SVCD/VCD/CD:

- 1 Select a disc number.
- ② Select tracks.
- 3 Repeat the above steps 1 and 2.

3 Start playback.

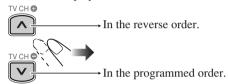


Playback starts in the order you have programmed.

To skip a step:	To pause:	To stop:
GROUP/TITLE SKIP	To release, press DVD/CD ▶.	

To check the programmed contents

Before or after playback...



• You can also use I◀◀ or ▶►I to check the programmed contents.

To modify the program

Before or after playback...

To erase the last track:	To erase the entire program:	To add another track to the program:
DISPLAY		Repeat step 2.

To exit from Program Play

Before or after playback...

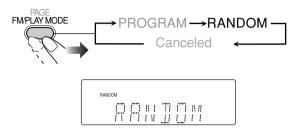


Playing at Random—Random Play Remote (NLY)



You can play all chapters or tracks at random.

- Random Play cannot be used for DVD-VR/JPEG and some DVDs.
- 1 Before starting playback, activate Random Play.



2 Start playback.



Playback starts in random order. Random Play ends when the entire disc has been played.

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

To exit from Random Play

Before or after playback...



Playing Repeatedly Remote ONLY STATES







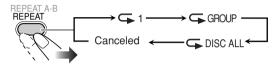
- You can also select the repeat mode using the on-screen bar (see pages 24 and 25).
- For MP3/WMA/JPEG, see page 28.

Repeat Play

You can repeat playback.

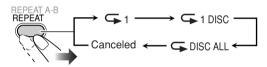
• For DVD Video/Audio:

While playing...



• For CD/SVCD/VCD:

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

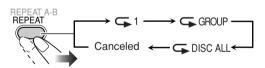


• For DVD-VR:

While playing an original program...



While playing a playlist...



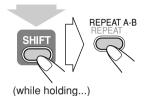
5 ,1	Repeats the current chapter/track.
Ç, GROUP	Repeats the current title (for DVD Video)/group (for DVD Audio)/title of PG or PL (for DVD-VR).
Ç,1,DISC	Repeats the current disc.
,DISC,ALL	Repeats all discs.

A-B Repeat

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

· A-B Repeat cannot be used for MP3/WMA and for some DVDs.

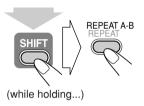
1 While playing (without PBC for SVCD/VCD), select the start point (A).



→ A- appears on the display.

• 🖒 A- appears on the TV if the TV is turned on

2 Select the end point (B).



⊊A-в appears on the display.

- A-B appears on the TV.
- · You can search for the end point using the ▶▶ button.

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

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

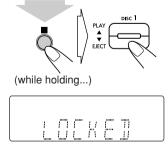
Prohibiting Disc Ejection—Child Lock



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

• This is possible only while the System is on standby.

While the disc trays are closed...

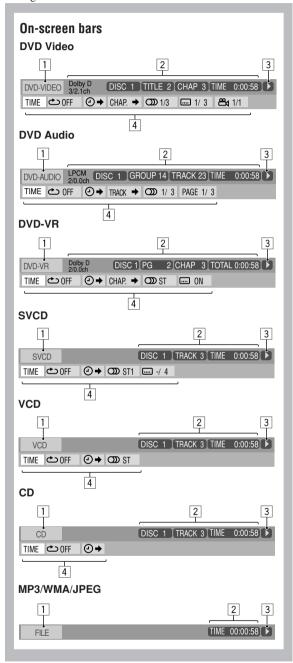


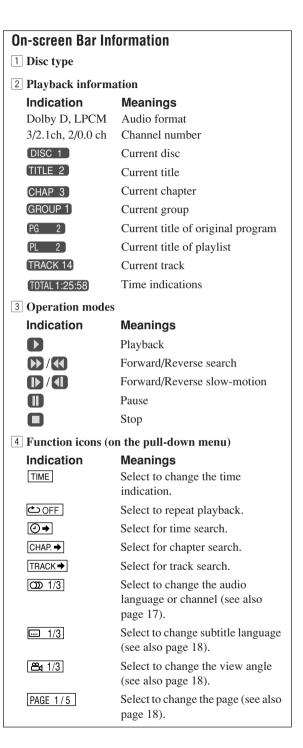
To cancel the prohibition, repeat the same procedure. "UNLOCKED" appears on the display.

On-screen Disc Operations (NFO) (NFO)



You can check the disc information and use some functions through the on-screen bar.



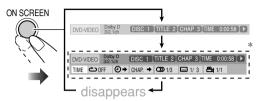


To operate using the On-screen Bar

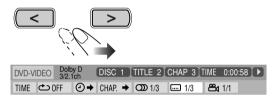
Ex.: Selecting a subtitle (French) for DVD Video

While a disc is selected as the source...

1 Display the entire on-screen bar.



- * This does not appear for MP3/WMA/JPEG discs.
- 2 Select (highlight) the item you want.



3 Display the pop-up window.





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



5 Finish the setting.



Pop-up window disappears.

To remove the on-screen bar



For detailed operations of the following functions, see also "To operate using the On-screen Bar" on the left.

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



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



TIME	Elapsed playing time of the current chapter/track (except for DVD-VR).
REM	Remaining time of the current chapter/track (except for DVD-VR).
TOTAL	Elapsed disc time.
T.REM	Remaining disc time.

To remove the on-screen bar



Repeat Play

- See also page 22.
- **1** While playing a disc (without PBC for SVCD/VCD), display the entire on-screen bar.
 - Repeat Play can be selected before starting playback, except for DVD Video/DVD-VR.
- 2 Select COFF.
- **3** Display the pop-up window.



4 Select the repeat mode you want.

A-B	Repeats a desired portion (see below).
TITLE	Repeats the current title.
GROUP	Repeats the current group.
DISC	Repeats the current disc.
ALL	Repeats all discs (except for DVD).
CHAPTER*	Repeats the current chapter.
TRACK*	Repeats the current track.
PG	Repeats the current title of original program (for DVD-VR only) (see also page 22).
PL	Repeats the current title of playlist (for DVD-VR only) (see also page 22).
OFF	Cancels Repeat Play.

^{*}During Program Play and Random Play, "STEP" appears.

5 Finish the setting.

ENTER/SET

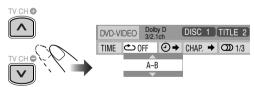


A-B Repeat

- See also page 22.
- 1 While playing, display the entire on-screen bar.
- 2 Select COFF.
- **3** Display the pop-up window.



4 Select "A-B."



5 Select the start point (A).





6 Select the end point (B).

ENTER/SET

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

 Before pressing ENTER/SET, you can search for the end point using the ►► button. **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 (without PBC for SVCD/VCD), display the entire on-screen bar.

- Time Search can be used before starting playback, except for DVD Video/DVD-VR.
- **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 mis-entry, press Cursor < to erase the last entry.

5 Finish the setting.



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

Chapter/Track Search

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

- 1 While playing, display the entire on-screen bar.
- 2 Select CHAP. → or TRACK → .
- **3** Display the pop-up window.



Continued on the next page

4 Enter the desired chapter/track number.



Examples:

To select chapter/track 5, press 5.

To select chapter/track 10, press 1, then 0.

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

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

• **To correct a mis-entry**, press the number keys until the desired number shown in the pop-up window.

5 Finish the setting.



The System starts playing the searched chapter or track.

Browsable Still Pictures

• See also page 18.

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.

- If a track is linked to browsable still pictures (B.S.P.), they are usually shown automatically during playback.
- 1 While playing a DVD Audio, display the entire onscreen bar.
- 2 Select PAGE 1/5.
- **3** Display the pop-up window.



4 Select a still picture you want.



5 Finish the setting.

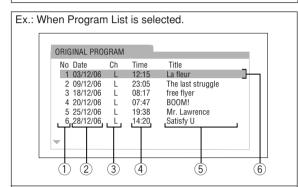


Control screen for DVD-R/-RW in DVD-VR format

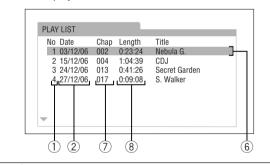
The control screen is superimposed on the TV screen when you call up Program List (PG) or playlist (PL).

To select playback type

To select the Program List:	To select the playlist:
TOP MENU/PG RETURN	MENUPL
To remove the list, press the same button again.	



Ex.: When playlist is selected.



- 1 Listed number
- 2 Recording date
- ③ Recording channels
- 4 Recording time
- 5 Title
- 6 Highlight bar (current selection)
- (7) Chapters included
- 8 Playback time

To select an item in the list and start playback



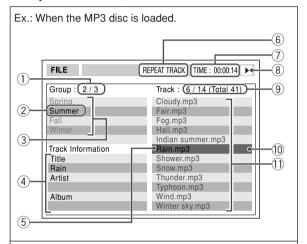
Operations on the Control Screen



You can search for and play the desired items through the control screen for MP3/WMA/JPEG discs.

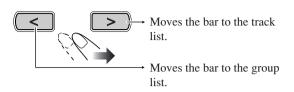
Control screen for MP3/WMA/JPEG discs

The control screen automatically appears on the TV screen when you load an MP3, WMA or JPEG disc.



- ① Current group number/total group number
- 2 Current group
- 3 Group list
- Track information (ID3 Tag Version 1.0: only for MP3/WMA)
- (5) Current track
- 6 Repeat Play setting
- ② Elapsed playing time of the current track (except for JPEG)
- 8 Operation mode icon
- © Current track number/total number of tracks in the current group (total number of tracks on the loaded disc)
- 10 Highlight bar
- 1 Track list
- If files of different types (MP3, WMA and JPEG) are recorded on a disc, select the file type to play (see page 31).

To move the highlight bar between group list and track list



To select an item in the list



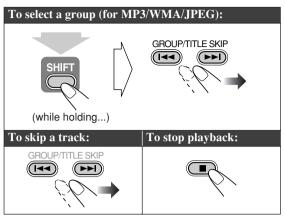
Move the highlight bar to the desired item.

 If you move the highlight bar while playing back an MP3/ WMA file or DVD-VR (PG/PL) disc, the selected track starts playback automatically.

To start playback

For JPEG:		
ENTER/SET	The selected track (still picture) is displayed until you change it.	
DVD/CD	Slide-show playback starts. Each track (still picture) is shown on the screen for about 3 seconds, then changes one after another.	
For the other files:		
ENTER/SET	Playback starts with the selected track. • Pressing DVD/CD ► also starts playback.	

- Once you start playing back a JPEG track, the control screen disappears.
- To cancel slide-show and display the current still picture, press II.



 You can select a group directly by pressing a number button after pressing GROUP/TITLE (except for DVD-VR disc).

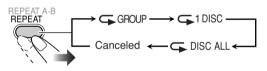
To repeat MP3/WMA playback

While playing or before playback...



To repeat slide-show for JPEG

While playing or before playback...



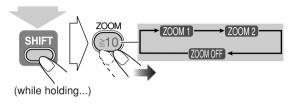
5 ,1	Repeats the current track.
GROUP	Repeats the current group.
,1,DISC	Repeats the current disc.
,DISC,ALL	Repeats all discs.

To zoom in the JPEG files

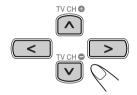
- You cannot zoom in the still picture during slide-show.
- For other discs, see page 19.

1 While playing back a still picture...

• During slide-show, press **II** to display the still picture, then...

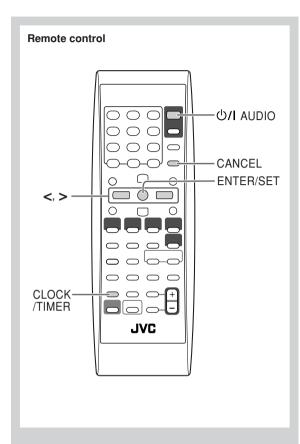


2 Move the zoomed-in position.



To cancel Zoom, press ZOOM (while holding SHIFT) repeatedly until "ZOOM OFF" appears on the TV.

Timer Operations



Setting the Timer Remote NFO







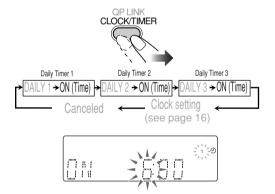
Using Daily Timer, you can wake up with your favorite music.

You can store three Daily Timer settings; however, you can activate only one of the timers at the same time.

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

Daily Timer initial settings when shipped from the factory

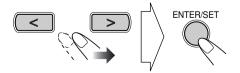
- DAILY 1: ON Time (6:00)/OFF Time (8:00)/ Source (TUNER FM 1)/Volume level (--)
- DAILY 2: ON Time (12:00)/OFF Time (14:00)/ Source (TUNER FM 1)/Volume level (--)
- DAILY 3: ON Time (18:00)/OFF Time (20:00)/ Source (TUNER FM 1)/Volume level (--)
- 1 Select one of the timer setting modes you want to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



Ex. When Daily Timer 1 setting mode is selected

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

Repeat the procedure for the following settings until finished:



Continued on the next page

- 1) Set the hour then the minute for on-time.
- 2 Set the hour then the minute for off-time.
- ③ Select the playback source—"TUNER-FM,"
 "TUNER-AM," "DISC," or "LINE IN."



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

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

- (5) Select the volume level.
 - You can adjust the volume level ("0" to "40" and "VOL -").

If you select "VOL --," the volume is set to the last level when the unit has been turned off.

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

- This function is not available for VCD with PBC activated.
- 3 Turn off the unit (on standby) if you have set the ontime.



How Daily Timer works

Once the Daily Timer has been set, the timer indicator (②) and timer number indicator (1/2/3) are lit on the display. Daily Timer is activated at the same time everyday until the timer is turned off manually (see the next column) or another timer is activated.

When the on-time comes

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

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

When the off-time comes

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

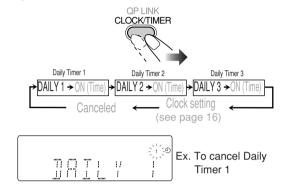
 The timer setting remains in memory until you change it.

To turn on or off the Timer

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

To cancel the Timer

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

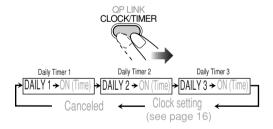


2 Turn off the selected Timer.



To turn on the Timer

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

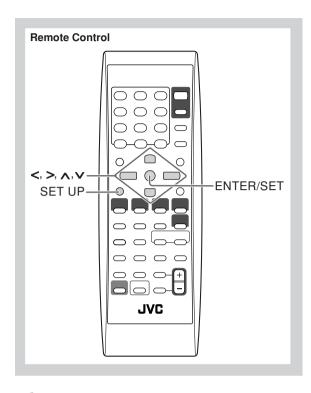


2 Activate the selected Timer.



3 Wait until the indication disappears.

Setup Menu Operations



Initial settings (SONLY) (SONLY)

The Setup Menu cannot be activated during playback.

1 Press SET UP.



- **2** Press < (or >) to select the menu.
- **3** Press \wedge (or \vee) to select the item.
- 4 Press ENTER/SET.
- 5 Press ∧ (or ∨) to select the options, then press ENTER/SET.
 - For settings of the LANGUAGE menu, see also "Language Code List" on page 37.

To remove a preference display Press SET UP.



LANGUAGE menu

Item	Contents	
MENU LANGUAGE	You can select the initial menu language of the DVD Video.	
AUDIO LANGUAGE	You can select the initial audio language of the DVD Video.	
SUBTITLE	You can select the initial subtitle language of the DVD Video.	
ON SCREEN LANGUAGE	You can select "ENGLISH," "FRENCH," 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 playback DVD Video discs recorded for
16:9 4:3 LB	 wide-screen televisions. 16:9 (Wide television screen): For a wide-screen (16:9) 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 source type of the disc contents. AUTO: Normally, select this option. The System recognizes the picture type (film or video source) of the current disc according to the disc information. FILM: For a film source disc. VIDEO: For a video source disc.
SCREEN SAVER	You can set the screen saver function to ON or OFF . If no operation is done for about 5 minutes, the display dims.
FILE TYPE	You can select the file type to play. AUDIO: To play MP3/WMA files. STILL PICTURE: To play JPEG files.



AUDIO menu

Item	Contents		
DIGITAL AUDIO OUTPUT	Set this item correctly when using the DVD OPTICAL DIGITAL OUT terminal on the rear.		
	PCM ONLY: When connecting to audio equipment which can decode only linear PCM signals.		
	DOLBY DIGITAL/PCM: When connecting to a Dolby Digital decoder or an amplifier with a built-		
	in Dolby Digital decoder.		
	STREAM/PCM: When connecting to a DTS decoder or an amplifier with a built-in DTS 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 to a surround decoder.		
	STEREO: Select this when connecting to a stereo receiver, MD player, TV, etc.		
D.RANGE COMPRESSION	Set this item to listen to DVD Video recorded in Dolby Digital format at low or middle volume.		
	AUTO: You can enjoy powerful playback sound with full dynamic range.		
	ON: Select this when you want to fully apply the compression effect to make the sound at lower		
	volume clear (useful at midnight).		



OTHERS menu

Item	Contents
RESUME	You can select Resume.
	ON: The System resumes playback from the position where playback has been stopped if the disc is
	still in the disc tray.
	OFF: Resume is deactivated.
ON SCREEN GUIDE	Activate or deactivate the on-screen guide.

Additional Information

Learning More about This System



Connections (see pages 3 to 5)

- · 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.
- Use only speakers with the same speaker impedance as indicated by the speaker terminals on the rear of the System.
- · The speakers are magnetically shielded to avoid color distortions on TVs. However, if not installed properly, it may cause color distortions. So, pay attention to the following when installing the speakers.
 - When placing the speakers near a TV set, turn off the TV's main power switch or unplug it before installing the
 - 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 instructions. If this happens, move the speakers away from the TV.
- When a portable audio device is connected to the LINE IN jack, sound will come out of the speakers and headphones. However, no sound will come out of the LINE OUT jack.

Daily Operations—Playback (see pages 7 to 12) **Listening to the Radio:**

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

the previously stored station in that number will be erased.

Playing Back a Disc:

- On some DVD, SVCD, or VCD discs, the actual operations may be different from what is explained in this manual, due to the programming and disc structure; such differences are not a malfunction of this System.
- When discs* in more than one tray are loaded on the disc trays, they are played in sequence as follows. (When DVD Video, DVD Audio or SVCD/VCD with PBC is loaded in the System, playback of the disc next to these discs will not start.):
 - Ex.: When DISC 2 is selected:
 - DISC 2⇒DISC 3⇒DISC 4⇒DISC 5⇒DISC 1⇒ (then stops)
 - * When no disc is loaded on the disc tray, that disc number is skipped.

- You can exchange discs while playing or selecting another disc.
- Some DVD Audio discs prohibit downmix. When you playback such a disc, "LR ONLY" appears on the display and the System plays back the left front and right front signals.
- When playing back a DVD Audio disc recorded in MLP (Meridian Lossless Packing; a lossless audio compression system that can completely recreate the PCM signal), the signals are recognized as the linear PCM signals, however, no indicator lights up on the display.
- This System can recognize up to 4 000 tracks in a disc. Also, the System can recognize up to 150 tracks per group and up to 99 groups in a disc.
 - If there are any unplayable files in a folder, those files are also counted in the total file number.
- Playable files which do not belong to any groups are handled as Group 1.
- For DVD-VR playback...
 - This System can play only a disc of UDF-Bridge format.
- For details about DVD-VR format and playlist, refer to the manual of the recording equipment.
- You cannot use reverse slow motion, Program Play, or Random Play.
- For MP3/WMA playback...
 - MP3/WMA discs require a longer readout time than regular CDs. (It depends on the complexity of the group/ file configuration.)
 - Some MP3/WMA files cannot be played back and will be skipped. This results from their recording processes and conditions.
 - This System can play only a disc of ISO 9660 Level 1 or
 - This System can playback MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
 - It is recommended that you make each MP3/WMA file at a sampling rate of 44.1 kHz and at a bit rate of 128 kbps. This System cannot playback files made at a bit rate of less than 64 kbps.
- For JPEG files playback...
 - It is recommended that you record a file at 640 x 480 resolution. (If a file has been recorded at a resolution of more than 640 x 480, it will take a long time to be shown.)
 - This System can play only baseline JPEG files*. Progressive JPEG files* or lossless JPEG files* cannot be played.
 - * Baseline JPEG format: Used for digital cameras, web, etc.

Progressive JPEG format: Used for web.

Lossless JPEG format: An old type and rarely used

now.

- This System can playback JPEG files with the extension code <.jpg> or <.jpeg> (regardless of the letter case upper/lower).
- This System may not playback JPEG files properly if they are recorded on a device other than a digital still camera.
- During slide-show playback, zoom cannot be operated.

Playing Back a Portable Audio Device:

- When QP Link fails due to a weak sound signal from the LINE IN jack, Auto Standby may turn the System off even if you can hear the sound from the speakers.
- In such cases, adjust the volume level of the component louder so that the System can detect the sound signal properly.
- Changing from LINE to another source while QP Link works will deactivate QP Link temporarily.
 In this case, the following reactivates QP Link:
- Pressing QP LINK on the remote control.
- Unplugging the component from the LINE IN jack, then plugging it again.
- If you press STANDBY **\Oldot**/I to turn the System off or if preset Timer turns the System off while QP Link works, the System will deactivate QP Link temporarily. In such cases, the following reactivates QP Link:
- When no sound signal comes from the LINE IN jack for about 30 seconds after the System is turned off.
- When you turn on the power again.
- QP Link may start working when you just plug in the component to the LINE IN jack or unplug it. This is not a malfunction.

Enjoying a video game:

- When enjoying a game with your video game connected to this System, connect this System and your TV with the composite video cable.
- Connect your video game and this System with the cable compatible with your video game.
- Sound Turbo II, AHB Pro and BASS/TREBLE settings are not available when GAME is selected as the source.
 However, you can adjust BASS/TREBLE setting with "G5 MANUAL" selected.

Playing Back from the PC:

- Check if your PC equipped with the CD-ROM drive is running on Windows® 98*, Windows® 98SE*, Windows® Me*, Windows® 2000*, or Windows® XP* and prepare its CD-ROM.
- *Microsoft®, Windows® 98, Windows® 98SE, Windows® Me, Windows® 2000 and Windows® XP are registered trademarks of Microsoft corporation.
- DO NOT turn off the System or disconnect the USB cable while installing the drivers or until your PC has recognized the System.
- Use a full speed USB cable (version 1.1).
- If your PC does not recognize the System, disconnect the USB cable and connect it again. If this does not work, restart Windows.

- The drivers installed can be recognized only when the USB cable is connected between the System and your PC.
- The sound may not be played back correctly—interrupted or degraded—due to your PC settings or PC specifications.

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

Adjusting the Sound:

• This function also affects the sound through the headphones.

Changing the Scanning Mode:

- 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 system using a component video cord.

Setting the Clock:

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

Unique DVD/VCD Operations (see pages 17 to 19)

Selecting the Audio Track:

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

Special Effect Playback:

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

Advanced Disc Operations (see pages 20 to 28)

Programming the Playing Order—Program Play:

- While programming steps...
 - You cannot eject any discs from the disc trays.
- Your entry will be ignored if you have tried to program an item number that does not exist (for example, selecting track 14 on a disc that only has 12 tracks).

Playing Repeatedly:

- When DVD Video or DVD Audio is loaded in this System, playback of the disc next to the DVD Video or DVD Audio will not start, although ALL /REPEAT ALL on the TV screen or ALL in the display window is shown.
- A-B Repeat can be used within the same title while playing a DVD Video, and within the same track for the other discs.

On-screen Disc Operations:

• For DVD-R/-RW in the VR format, "PG" or "PL" appears instead of "TITLE" on the on-screen bar.

Operations on the Control Screen:

 If you press ON SCREEN on the remote control during playback, playback information appears on the TV screen.

Timer Operations (see pages 29 and 30)

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 the 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.
- If you set DVD Video as the source, Daily Timer will not work correctly.

Timer Priority:

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

Setup Menu Operations (see pages 31 and 32)

• 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 while playing a disc. This depends on how the discs are recorded.
- When you select "16:9" for a picture whose aspect ratio is 4:3, the picture slightly changes due to the process for converting the picture width.

OTHERS 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.



To get the best performance of the System, keep your discs 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 temperature, and moisture.

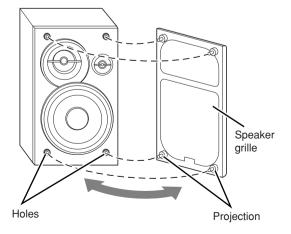
To clean the disc:

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

Cleaning the System

- Stains should be wiped off with a soft cloth. If the System is heavily stained, wipe it with a cloth soaked in waterdiluted neutral detergent and wrung well, then wipe clean with a dry cloth.
- Since the System may deteriorate in quality, become damaged or get its paint peeled off, be careful about the following:
- DO NOT wipe it with a hard cloth.
- DO NOT wipe it 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.

To remove the speaker grilles:





General:

Adjustments or settings are suddenly canceled before vou 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.

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

⇒ Select "4:3 LB" for "MONITOR TYPE" (see page 31).

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 Playback Operations:

The disc does not play.

- ⇒ You have inserted a disc 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/WMA disc cannot be shown.

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

Groups and tracks are not played back as you expect.

⇒ The playing order is determined when the groups and tracks were recorded. It depends on the writing application.

MP3, WMA or JPEG files are not played back.

- ⇒ The disc may include both type of tracks (MP3/WMA files and JPEG files). In this case, you can only playback the files selected by the "FILE TYPE" setting (see page 31).
- ⇒ You have changed the "FILE TYPE" setting after the System read the disc. In this case, reload the disc.

"NO AUDIO" appears.

⇒ This System cannot playback illegally produced DVD Audio discs.

"LR ONLY" appears.

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

The disc sound is discontinuous.

⇒ The disc is scratched or dirty.

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

⇒ Some DVDs are programmed to always display no subtitle initially. If this happens, press SUBTITLE after starting playback (see page 18).

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

⇒ Some DVDs are programmed to always use the original language initially. If this happens, press AUDIO/MPX after starting playback (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 in the display window (see page 22).

USB Operations:

Unable to playback through the USB connection.

⇒ USB connection and setting is incorrect.

Playback stops.

- ⇒ Disconnect and connect the USB cable again.
- ⇒ Restart the music software on your PC.
- ⇒ Turn off and on the System.

Timer Operations:

Daily Timer does not work.

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

Daily Timer does not start playback.

- ⇒ The disc loaded is a DVD Video. Change the disc.
- ⇒ Title/group number and chapter/track number are not entered while setting the Daily Timer. Do not skip these steps when you want to play a disc using Daily Timer.

Language Code List

AA	Afar
AB	Abkhazian
AF	Afrikaans
AM	Ameharic
AR	Arabic
AS	Assamese
AY	Aymara
AZ	Azerbaijani
BA	Bashkir
BE	Byelorussian
BG	Bulgarian
BH	Bihari
BI	Bislama
BN	Bengali, Bangla
ВО	Tibetan
BR	Breton
CA	Catalan
CO	Corsican
CS	Czech
CY	Welsh
DA	Danish
DZ	Bhutani
EL	Greek
EO	Esperanto
ET	Estonian
EU	Basque
FA	Persian
FI	Finnish
FJ	Fiji
FO	Faroese
FY	Frisian
GA	Irish
GD	Scots Gaelic
GL	Galician
GN	Guarani
GU	Gujarati
HA	Hausa
HI	Hindi
HR	Croatian
HU	Hungarian
HY	Armenian
IA	Interlingua
IE	Interlingue
IK	Inupiak
IN	Indonesian
IS	Icelandic
IW	Hebrew
JI	Yiddish
91	1 Iddisii

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

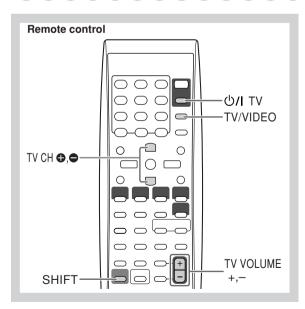
Samoan
Shona
Somali
Albanian
Serbian
Siswati
Sesotho
Sundanese
Swedish
Swahili
Tamil
Telugu
Tajik
Thai
Tigrinya
Turkmen
Tagalog
Setswana
Tonga
Turkish
Tsonga
Tatar
Twi
Ukrainian
Urdu
Uzbek
Vietnamese
Volapuk
Wolof
Xhosa
Yoruba
Zulu

OPTICAL DIGITAL OUT Signals

DIGITAL AUDIO	Output Signals		
OUTPUT	Output Signals		
Playback disc	STREAM/PCM	DOLBY DIGITAL/PCM	PCM ONLY
DVD Video			
with 48 kHz, 16/20/24 bit Linear PCM	48 kHz, 16 bit Linear PCM*		
with 96 kHz, Linear PCM		48 kHz, 16 bit Linear PCM	
with Dolby Digital	Dolby Dig	ital bitstream	48 kHz, 16 bit Linear PCM
with DTS	DTS bitstream	48 kHz, 16 bi	t Linear PCM
DVD Audio		•	
with 48/96/192 kHz, 16/20/24 bit	48 kHz, 16 bit Linear PCM*		
Linear PCM			
with 44.1/88.2/176.4 kHz,		44.1 kHz, 16 bit Linear PCM*	
16/20/24 bit Linear PCM	44.1 KHZ, 10 bit Linear PCIVI**		
with Dolby Digital	Dolby Digital bitstream 48 kHz, 16 bit Linear PCM		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		it Linear PCM
MP3/WMA	32/44.1/48 kHz, 16 bit Linear PCM		

^{*} While playing some DVDs, digital signals may be emitted at 20 bits or 24 bits (at their original bit rate) through the DVD OPTICAL DIGITAL OUT terminal.

Operating JVC's TVs Using the Remote Control



You can use the remote control to operate JVC's TVs.

ტ/I TV	Turn on/off TV.	
While holding SHIFT, press		
TV CH ⊕, ⊕	Change the channels.	
TV VOLUME +,-	Adjust the volume.	
TV/VIDEO	Change the input mode.	



Amplifier section—CA-UXG70

Output Power: 120 W per channel, min. RMS, driven into

 6Ω at 1kHz with no more than 10% total

harmonic distortion.

Audio Input LINE IN:

> $500 \text{ mV}/49 \text{ k}\Omega \text{ (at "L.IN LVL1")}$ $250 \text{ mV/}49 \text{ k}\Omega$ (at "L.IN LVL2") $125 \text{ mV}/49 \text{ k}\Omega$ (at "L.IN LVL3")

GAME IN: $500 \text{ mV}/49 \text{ k}\Omega$

Audio Output LINE OUT:

1.0 Vrms (3 k Ω) (at "L.OUT LVL1") 500 mVrms (1.5 k Ω) (at "L.OUT LVL2") SUBWOOFER OUT: 260 mVrms/3.9 kΩ **HEADPHONES OUT:** $17 \text{ mW/} 32 \Omega$

Digital output: DVD OPTICAL DIGITAL OUT:

 $-21 \text{ dBm to } -15 \text{ dBm } (660 \text{ nm } \pm 30 \text{ nm})$

USB input: **USB AUDIO**

Video output:

Color system: NTSC or PAL (interlaced/progressive)

VIDEO (composite): 1 V(p-p)/75 Ω S-VIDEO: Y (luminance) 1 V(p-p)/75 Ω

C (chrominance, burst)

NTSC $0.286 \text{ V(p-p)/75 }\Omega$ PAL $0.3 \text{ V(p-p)/75 }\Omega$

COMPONENT: (Y) 1 V(p-p)/75 Ω (P_B/P_R) $0.7 \text{ V(p-p)/}75 \Omega$

Speaker impedance: $6\Omega - 16\Omega$ Headphone impedance: $16 \Omega - 1 k\Omega$

Tuner section

FM tuning range: 87.50 MHz - 108.00 MHz

AM tuning range:

531 kHz – 1 710 kHz (at 9 kHz intervals) 530 kHz – 1 710 kHz (at 10 kHz intervals)

Disc player section

Playable disc: DVD Video/DVD Audio/CD/VCD/SVCD

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

WMA/JPEG format)

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

WMA/JPEG format)

+R/+RW (DVD Video format) DVD-ROM (DVD Video format)

80 dB Dynamic range: Horizontal resolution: 500 lines Wow and flutter: Immeasurable

General

Power requirement:

AC 110 V/AC 127 V/AC 220 V/ AC 230 V-240 V \sim

(adjustable with the voltage selector), 50 Hz/60 Hz

90 W (at operation) Power consumption: 14 W (at standby)

1.0 W (at standby display OFF mode)

175 mm x 250 mm x 411 mm Dimensions (approx.): (W/H/D)

Mass (approx.): $7.6 \, \mathrm{kg}$

Speakers—SP-UXG70

1.5 cm dome x 1 Speaker units: Tweeter:

Squawker: 4 cm cone x 1 Woofer: 13.5 cm cone x 1

Impedance: 6Ω Dimensions (approx.): 166 mm x 250 mm x 232 mm

(W/H/D) Mass (approx.): 2.8 kg each

Supplied Accessories

See page 3.

Design and specifications are subject to change without notice.

- Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", "MLP lossless", and the double-D symbol are trademarks of Dolby Laboratories.
- "DTS" and "DTS 2.0+ Digital Out" are registered trademarks of Digital Theater Systems, Inc.
- This product incorporates copyright protection technology that is protected by 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.

"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

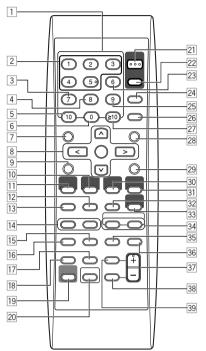
Remote control

Button		Page
ひ/I AUDIO	21	7, 30
ტ/I TV	22	38
	12	10, 11, 19, 21, 28
▶ , 	14	9. 11
₩ ,₩	34	9, 11, 21, 28
1	13	10, 19, 21, 27
∧,∨,>,<,ENTER/SET	8	9, 11, 14, 15, 16, 18, 19, 21, 24 – 31
C.VOICE	15	19
(One-Touch Replay)	32	19
Number buttons	1	9, 11, 19, 20, 25, 26
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	35	22, 28
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SET UP	9	31
	19	
SHIFT	25	10, 11, 14, 15, 16, 18, 19, 22, 28, 29, 38
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SLOW ①, ② SOUND TURBO II	20	13
	7	-
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TV CH (), (8	38
TV VOLUME + , -	37	38
TV/VIDEO	24	38
USB	30	7, 12
VFP	4	15
VOLUME + , -	37	7, 13
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Main unit

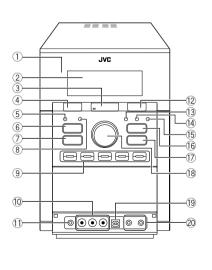
Button		Page
ტ/I & STANDBY lamp	(3)	7
	(14)	10, 22
DIMMER	(8)	15
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LINE	17)	7
LINE IN/OUT jacks	20	5
PHONES	11)	7
Remote sensor	1)	5
SOUND TURBO II	4	13
UP ▶▶, DOWN ▶◀	13(15)	8, 10, 21
USB	16	12
USB AUDIO jack	19	12
VOLUME + , -	18	13

Remote control

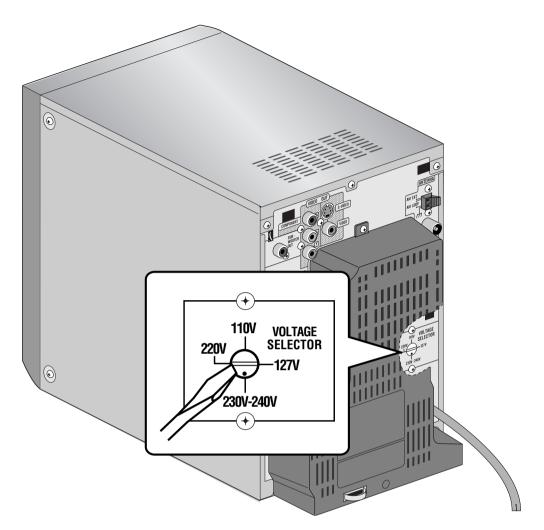


This remote control can also operate JVC's TVs (see page 38).

Main unit



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

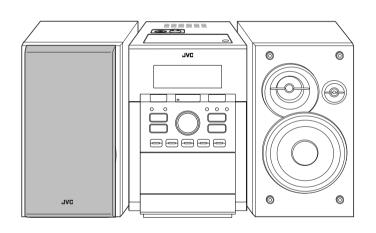


JVC



MICRO COMPONENT SYSTEM

UX-G70—Consists of CA-UXG70 and SP-UXG70





















MPEG-4 Digital Direct Progressive Scan



INSTRUCTIONS

Warnings, Cautions and Others

CAUTION— O/I (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 O/I (Standby/on) 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.

IMPORTANT FOR LASER PRODUCTS

- 1. CLASS 1 LASER PRODUCT
- 2. CAUTION: Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service
- 3. **CAUTION:** Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.

CAUTION

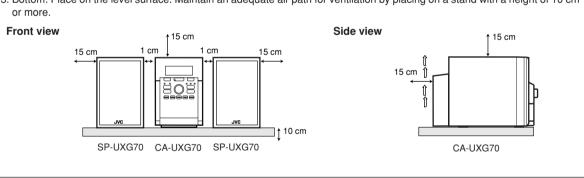
- Do not block the ventilation openings or holes. (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
- Do not place any naked flame sources, such as lighted candles, on the apparatus.
- · When discarding batteries, environmental problems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

Caution: Proper Ventilation

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

1. Front: No obstructions and open spacing.

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





Introduction

Precautions -

Installation

 Install the System in a location with adequate ventilation to prevent internal heat buildup in the System.



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

- 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 on the lenses inside the System in the following cases:

- · After starting to heat the room
- In a damp room
- If the System is brought directly from a cold to a warm place.

Should this occur, the System may malfunction. In this case, leave the System turned on for a few hours until the moisture evaporates, unplug the AC power cord, then plug it in again.

Internal heat

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



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

Others

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



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

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

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

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Changing the Scanning Mode	
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Recording on a Tape	30 31 32 33 34 36 38
Recording on a Tape	30 31 32 33 34 36 38
Recording on a Tape	30 31 32 33 34 38 38 38

Playable Disc Types













Video CD





- CD-R/-RW: Recorded in the Audio CD, Video CD and SVCD formats, MP3, WMA, JPEG, MPEG-1. MPEG-2, ASF and DivX files written in accordance with the "ISO 9660" format can also be played.
- DVD-R/-RW, +R/+RW: Recorded in the DVD Video format, MP3, WMA, JPEG, MPEG-1, MPEG-2, ASF and DivX files written in the UDF bridge format can also be played.
- DVD-R/-RW/-ROM: Recorded in the DVD Video Recording (VR) format.

In addition to the above discs, this System can playback audio data recorded on CD-Extra.

- The following discs cannot be played back: DVD-RAM, CD-I (CD-I Ready), CD-ROM, Photo CD, CD-G (CD-Graphics) and DVD/CD Text. Playing back these discs will generate noise and damage the speakers.
- In this manual, "file" and "track" are interchangeably used for MP3, WMA, JPEG, MPEG-1, MPEG-2, ASF and DivX operations.
- It is possible to playback finalized +R/+RW (DVD format only) discs. "DVD" lights on the front display panel when a +R/+RW disc is loaded.

About color system

This System accommodates the NTSC and PAL system and can playback discs recorded in either the NTSC or the PAL

• To change the color system, see page 15.

Note on Region Code

DVD players and DVDs have their own Region Code numbers. This System can playback only DVDs with an appropriate Region Code number.

For details, see "Specifications" on page 44.

EX .: For South East Asia









Audio formats

The System can playback the following digital audio formats.

• LPCM (Linear PCM), DIGITAL (Dolby Digital), DTS (Digital Theater Systems), MLP (Meridian Lossless Packing)

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

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

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

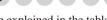
- Turn on the TV and select an appropriate input mode on the TV to view the pictures or on-screen displays.
- For disc playback, you can change the initial setting to your preference. See "Setup Menu Operations" on

If " \(\)" appears on the TV screen when you press a **button,** the disc cannot perform the operation you have tried to do.

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).

	_
_	
$\overline{}$	
ζ,	

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.



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.

"DVD Logo" is a trademark of DVD Format/Logo Licensing Corporation registered in the US, Japan and other countries.

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 the Non-DVD side of a DualDisc in this product is not recommended.

Connections

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

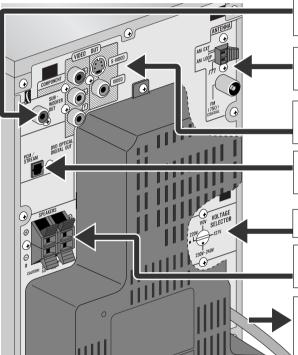
 Connect VIDEO OUT directly to the video input of your TV. Connecting VIDEO OUT to a TV via a VCR may interfere with your viewing when playing back a copyprotected disc. Connecting VIDEO OUT to an integrated TV/VCR system may also interfere with your viewing.

Supplied accessories

Check to be sure that you have all the following items.

- FM antenna (x1)
- AM loop antenna (x1)
- Composite video cord (x1)
- Core filter* (x1)
- Remote control (x1)
- Batteries (x2)
- AC plug adapter (x1) (except for the Middle East) If any item is missing, consult your dealer immediately.

Rear panel



From the powered subwoofer See page 4.

2 From AM/FM antenna See page 4.

See page 4.

3 From the input of TV/monitor

4 From the digital input of digital audio component See page 4.

Voltage selector: See page 5.

5 From the speakers See page 5.

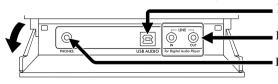
6 To a wall outlet

Plug in 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 (except for the Middle East).

Front panel

Pull down the cover until you hear a clicking sound.



From the PC: See page 12.

From the portable audio device: See page 5.

From the headphones: See page 7.

*Attaching the core filter to the USB cable to reduce interference

1

2 At the front panel



ALDO STATES

- Wind firmly the USB cable twice.
- Keep close between the plug connected to the System and the core filter.
- Do not damage the USB cable by applying excessive force when winding.



Close the core filter until you hear a clicking sound.

1 Powered subwoofer

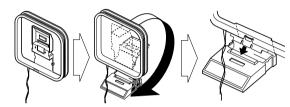


The subwoofer connected can reproduce the bass sounds recorded in front left and right channels, but cannot reproduce the LFE signals in DVD multi-channel discs.

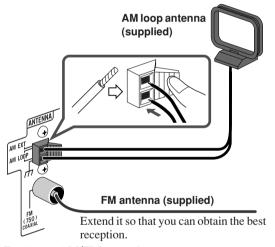
• Before plugging the unit to the main supply, make sure that the powered subwoofer is turned off.

2 AM/FM antenna

To assemble the AM loop antenna

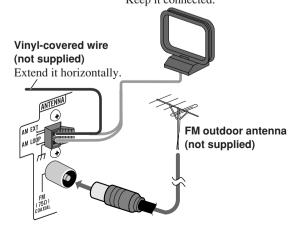


To connect AM/FM antenna



For better AM/FM reception

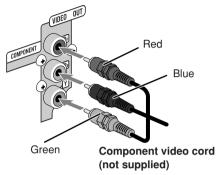
AM loop antenna (supplied) Keep it connected.



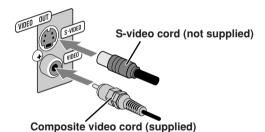
• Disconnect the supplied FM antenna, and connect to an outdoor FM antenna using a 75 Ω wire with coaxial type connector (IEC or DIN45325).

3 TV/monitor

Connect only component cord at one time.

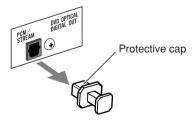


• To select progressive scanning mode (see page 15), use COMPONENT jacks.



• After connecting a TV, select the proper video signal mode according to the connection method. See "Changing the Scanning Mode" on page 15.

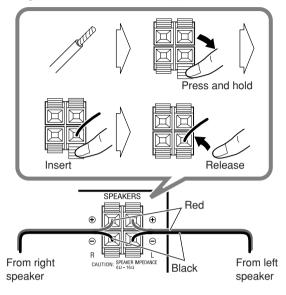
4 Digital audio component



- Set "DIGITAL AUDIO OUTPUT" in the "AUDIO" menu correctly according to the connected digital audio equipment (see page 37). If the setting is incorrect, loud noise may be generated causing damage to the speakers.
- Digital audio signals are output from this System only when "DVD/CD" is selected as the source.

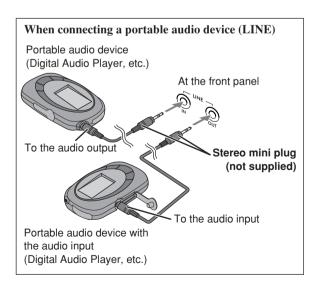
Speakers

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





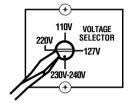
- DO NOT connect more than one speaker to each terminal.
- DO NOT push or pull the speakers as this will damage the foot spacers at the bottom of the speakers.



- By using QP Link (Quick Portable Link), you can easily start playing back a portable audio device on this unit when connecting it to the LINE IN jack. See page 12 for details.
- Connect an audio component to the LINE OUT jack if the component is not equipped with a digital input terminal.
- If an external device is not equipped with a stereo mini plug audio output, use a plug adaptor to convert the stereo mini plug to the corresponding plug of the audio output.

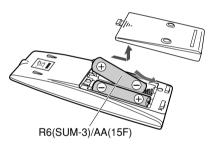
Before plugging in the System

Set the correct voltage for your area with the voltage selector on the rear.



Use a screwdriver to set the voltage selector to the same voltage as where you are plugging in the unit. (See also the back cover page.)

Preparing the remote control



• Dispose of batteries in the proper manner, according to federal, state, and local regulations.



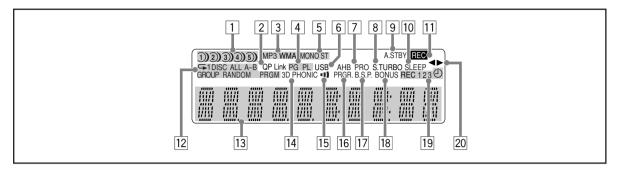
DO NOT recharge, short, disassemble, heat the battery or dispose of it in a fire.

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.

Display Indicators

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 Disc tray indicators

- 1–5: Disc tray number indicators.
- -Flashing while the disc tray is open.
- \supset (disc tray indicator):
 - -Lights when the disc is detected.
 - -Flashing while playing back a disc or the disc tray is open.
 - -Disappears when there is no disc in the tray.
-): Lights to indicate the current selected disc.
- 2 QP Link (Quick Portable Link) indicator
 - · Lights when QP Link is activated.
- 3 Audio file format indicators
 - MP3: lights when an MP3 track is detected.
 - WMA: lights when a WMA track is detected.
- 4 PG/PL indicators
 - PG: lights when a DVD-VR formatted disc is called up.
 - PL: lights when a playlist recorded on a DVD-VR formatted disc is called up.
- 5 FM reception indicators
 - MONO: lights while receiving an FM stereo station in monaural.
 - ST (stereo): lights while an FM stereo station with sufficient signal strength is tuned in.
- 6 USB indicator
 - Lights when "USB" is selected as the source.
- 7 AHB PRO indicator
 - Lights when Active Hyper Bass Pro is activated.
- 8 S.TURBO (Sound Turbo) indicator
 - Lights when Sound Turbo II is activated.
- 9 A.STBY (Auto Standby) indicator
 - Lights when Auto Standby is activated.
 - Flashes for about 3 minutes before Auto Standby turns the System off.
- 10 SLEEP indicator
 - Lights when the Sleep Timer is activated.
- 11 REC indicator
 - · Lights while recording.

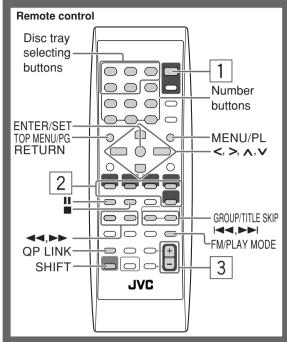
12 Playback mode indicators

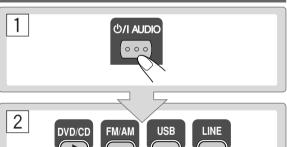
- PRGM: lights when Program Play is activated.
- RANDOM: lights when Random Play is activated.
- **⇐** (repeat)1 DISC A-B ALL GROUP:
- 1: lights when One Track/Chapter/Step Repeat is activated.
- ←, GROUP: lights when Group Repeat is activated.
- ←,1,DISC: lights when One Disc Repeat is activated.
- ←,DISC,ALL: lights when All Disc Repeat is activated.
- ←,A-B: lights when A-B Repeat is activated.

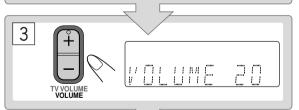
13 Main display

- While listening to radio: Band (or preset number) and station frequency appear.
- While selecting "LINE": "LINE" appears.
- While selecting "TAPE": "TAPE" appears.
- While selecting "USB": "USB AUDIO" appears.
- While playing a disc: current status appears.
- 14 3D PHONIC indicator
 - Lights when 3D Phonic is activated.
- (Clear Voice) indicator
 - Lights when Clear Voice is activated.
- 16 PRGR. (Progressive) indicator
- Lights when the progressive scanning mode is selected.
- [17] B.S.P. (Browsable Still Picture) indicator
 - Lights when Browsable Still Pictures are detected while playing a DVD Audio disc.
- 18 BONUS indicator
 - Lights when a DVD Audio disc with a bonus group is detected.
- 19 Daily Timer indicators
 - 1/2/3: lights when a Daily Timer (1, 2, or 3) is on standby; flashes while working or being set.
 - ②: lights when Daily Timer is on standby or is being set.
 - REC: lights when the Recording Timer stands by; flashes while working or being set.
- 20 **►** (tape direction) indicators
 - -Lights to indicate the current tape running direction.
 - -Flashes slowly during playback and recording.
 - Flashes quickly while rewinding or fast-forwarding a tape.

Daily Operations—Playback









In this manual, 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 turns on by pressing one of the source buttons.
- The System turns on and changes the source to LINE by starting playback on an external device when QP Link is activated. (See page 12 for details.)

2 Select the source.

Playback automatically starts if the selected source is ready.

- If you press LINE, start playback on the external component.
- 3 Adjust the volume.
- 4 Operate the target source as explained later.

To turn off (standby) the unit



The STANDBY lamp on the main unit lights in red.

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

You can reduce power consumption by pressing DISPLAY to turn the display off while on standby.

• When the display is turned off, QP Link does not work.

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.

Listening to the Radio (NEO

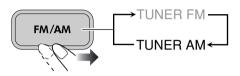


To set the AM tuner interval spacing

Before operating the tuner, it is required to select the appropriate AM space interval used for your area.

• This is possible only while the System is on standby.

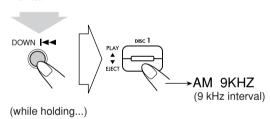
1 Select the AM band.

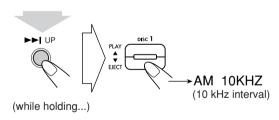


2 Turn off the power.

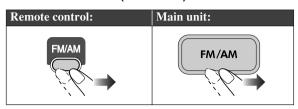


3 Select the appropriate AM space interval for your area.



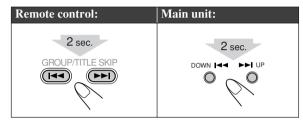


To select the band (FM or AM)



To tune in to a station

While FM or AM is selected...



Frequency starts changing on the display.

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

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

To stop searching manually, press either button.

If the FM station has poor reception





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

To preset the 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.





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

3 Select a preset number for the station you store.



Examples:

To select preset number 5, press 5.

To select preset number 10, press 10.

To select preset number 15, press ≥ 10 , 1, then 5.

To select preset number 30, press ≥ 10 , 3, then 0.

- You can also use the ▶▶ or ◀◀ button.
- **4** Store the station.

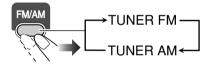




To tune in to a preset station



1 Select the band (FM or AM).



2 Select the preset number for the station you stored.



Examples:

To select preset number 5, press 5

To select preset number 10, press 10.

To select preset number 15, press ≥ 10 , 1, then 5.

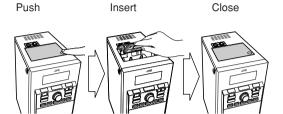
To select preset number 30, press $\ge 10, 3$, then 0.

• You can also use the ▶▶ or ◀◀ button.

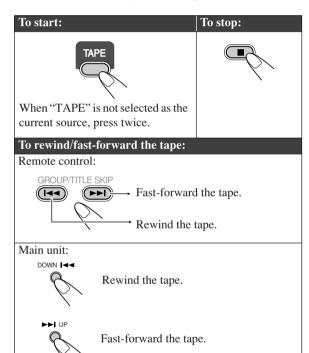
Playing Back a Tape

To insert a tape

You can playback type I tapes.



With the tape side facing outside



Playing Back a Disc (NEO)

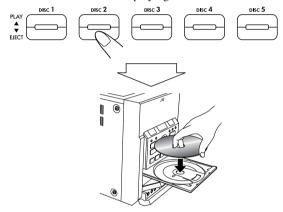


Before operating a disc, be familiar how a disc is recorded.

- DVD Video/DVD-VR comprises of "Titles" which includes "Chapters," DVD Audio/MP3/WMA/MPEG-1/ MPEG-2/ASF/DivX comprises of "Groups" which includes "Tracks," JPEG comprises of "Groups" which includes "Files." and CD/SVCD/VCD comprises of only "Tracks."
- For playback of MP3/WMA/JPEG/MPEG-1/MPEG-2/ ASF/DivX, see also page 27.

To insert a disc

You can insert a disc while playing another source.



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

To close the disc tray, press the upper part of the same button. The tray closes and playback starts.

- When current selected disc tray is open, you can use DVD/CD ► to close the disc tray and start playback (depending on how the disc is programmed internally).
- While one of the trays is open, the tray closes automatically by pressing down EJECT for the next tray, then the next tray comes out.

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

 While playing DVD/SVCD/VCD/MP3/WMA/MPEG-1/ MPEG-2/ASF/DivX: This System can store the stop point, and when you start playback again by pressing DVD/CD▶ (even while on standby), it starts from the position where you have stopped—Resume Play. ("RESUME" appears on the display when you stop playback.)

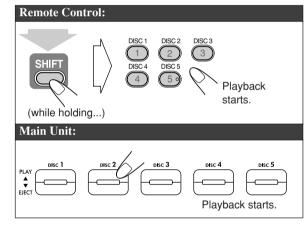
To stop completely while Resume is activated, press ■ twice. (To cancel Resume, see "RESUME" on page 37.)

• When operating the System, the on-screen guide icon (see the following table) appears on the TV.

On-screen quide icons

- During DVD Video playback, the following icons may appear on the TV:
 - At the beginning of a scene containing <u>مر</u> multi-angle views.
 - At the beginning of a scene containing multi-audio sounds.
 - At the beginning of a scene containing multi-subtitles.
- The following icons will be also shown on the TV to indicate your current operation.
 - **D**, **M**, **W**, **W**, **M**
- To deactivate the on-screen guide icons, see "ON SCREEN GUIDE" in "OTHERS menu" on page 37.

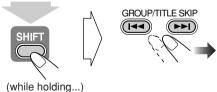
To select a disc



To select a title/group



While playing a disc...



- You can select a title/group directly by pressing a number button after pressing GROUP/TITLE (except for DVD-VR
- Group name appears for MP3/WMA playback.

To select a chapter/track

• For VCD/SVCD, cancel PBC (see the right column). While playing a disc...



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

To locate a particular portion



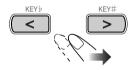
While playing a disc...



- Search speed changes as illustrated above except for MP3/ WMA/DivX discs. For MP3/WMA/DivX discs, search speed and the indications on the TV are different.
- No sound comes out if searching is carried out while showing the moving picture.

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

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



To locate an item directly



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

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



Examples:

To select number 5, press 5. To select number 10, press 10. To select number 15, press \geq 10, 1, then 5.

To select number 30, press ≥ 10 , 3, then 0.

To playback using the disc menu

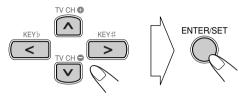


■ For DVD Video/DVD Audio:

1 Show the disc menu.



2 Select an item on the disc menu.



 With some discs, you can also select items by entering the number using the number buttons.

■ For SVCD/VCD with PBC:

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

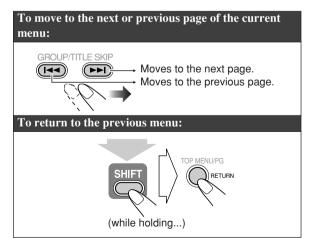
When disc menu appears on the TV, select an item on the menu. Playback of the selected item starts.



Examples:

To select number 5, press 5. To select number 10, press 10. To select number 15, press \geq 10, 1, then 5.

To select number 30, press ≥ 10 , 3, then 0.



To cancel PBC, press ■, then select a track. Playback starts with the selected track.

To reactivate PBC, press ■ (twice if Resume is turned "ON"), then press DVD/CD ►.

Playing Back a Portable Audio Device CNEO

By using QP Link (Quick Portable Link), you can easily start playing back a portable audio device connected to the LINE IN jack (see page 5).

 Make sure to set the volume of your portable audio device loud enough so that the System can detect the sound signal.

To activate QP Link OP LINK CLOCKTIMER QPLINK ON—

(while holding...)

When QP Link is activated, connecting a portable device to the LINE IN jack and starting playback performs the following:

- While listening to another source...
 Changes the source to LINE automatically. (If you change from LINE to another source, QP Link will be canceled.)
- While the System is on standby...

Turns on the System and activates the LINE source automatically (except when the display is turned off).



While QP Link plays back the device...



Playing Back from the PC (NEO



This System is equipped with a USB AUDIO terminal on the front panel. You can connect your PC to this terminal and enjoy sound reproduced through your PC.

When you connect your PC for the first time, follow the procedure below.

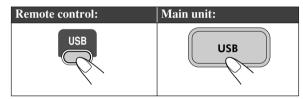
 Remember you cannot send any signal or data to your PC from this System.

IMPORTANT

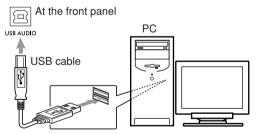
 Always set volume to "VOL MIN" when connecting or disconnecting the other equipment.

How to install the USB drivers

- 1 Turn on your PC and start running Windows® 98*, Windows® 98SE*, Windows® Me*, Windows® 2000*, or Windows® XP*.
 - If the PC has been turned on, quit all the applications running.
- 2 Select "USB" as the source.



3 Connect the System to the PC using a USB cable (not supplied).



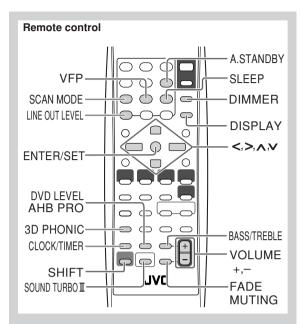
- Use "USB series A plug to B plug" cable less than 3 m.
- **4** The USB drivers are installed automatically.

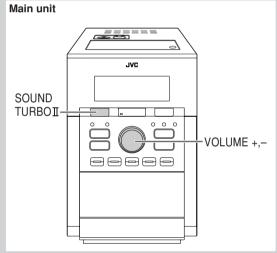
To playback sound on the PC

Refer to the manuals supplied with the sound reproduction application installed in the PC.

- Noise and static electricity may stop the sound through the USB connection. In this case, do the following operations:
 - Disconnect and connect the USB cable again
 - Restart the music software on your PC
- Turn off and on the System
- * Microsoft®, Windows® 98, Windows® 98SE, Windows® Me, Windows® 2000 and Windows® XP are registered trademarks of Microsoft corporation.

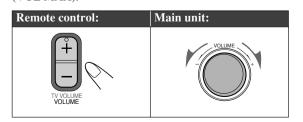
Daily Operations—Sound & Other Adjustments





Adjusting the Volume





To drop the volume in a moment





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

Adjusting the Sound (NEO)



To reinforce the heavy sound

This boosts the low and high frequency sound—Sound Turbo II.



• When Sound Turbo II is turned on, AHB Pro is automatically turned on, and cannot be turned off. (AHB PRO indicator does not light even though the function is turned on.)

To reinforce the bass sound (NNLY)>>>



While Sound Turbo II is off, the richness and fullness of the bass sound is clearly maintained regardless of how you set the volume—Active Hyper Bass Pro.



• When Sound Turbo II is turned on, AHB Pro setting cannot be changed.

To adjust the tone Femore (SNLY)

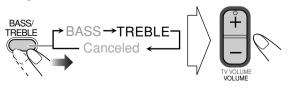


You can adjust the bass and treble level from -3 to +3.

To adjust the bass



To adjust the treble



Creating 3-dimentional Sound Field

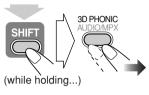






 This does not function for MPEG-1/MPEG-2/ASF/DivX discs.

While playing a disc...



 	3D PHONIC	ACTION	 -	3D PHONIC	DRAMA	
Ч	3D PHONIC	OFF	-	3D PHONIC	THEATER	•

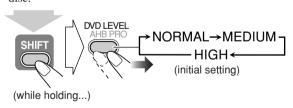
• The selected mode can only be shown on the TV.

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 >>>>

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 only functions for DVD Video and DVD-VR format disc.

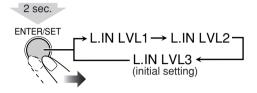


NORMAL	Original recording level.
MEDIUM	Output level is increased (less than "HIGH").
HIGH	Output level is increased (more than "MEDIUM"). (initial setting)

Adjusting the Audio Input Level (Source)



If the sound from the component connected to the LINE IN jack is too loud or is too quiet when changing from another source to LINE, you can change the audio input level through the LINE IN jack (without changing the volume level).

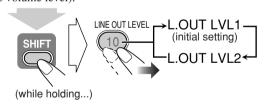


L.IN LVL1	Select this when the sound is too loud with "L.IN LVL 2" selected. This setting is recommended when connecting an audio device other than a portable audio device to the LINE IN jack.
L.IN LVL2	Select this when the sound is too loud with "L.IN LVL 3" selected.
L.IN LVL3	Select this when listening to a portable audio device or recording the sound from it (initial setting).

Adjusting the Audio Output Level (Control)



If the recorded sound on the device connected to the LINE OUT jack is too loud or too quiet, you can change the audio output level through the LINE OUT jack (without changing the volume level).



L.OUT LVL1	with a portable audio device (initial setting).
L.OUT LVL2	Select this when the recorded sound is
	too loud with "L.OUT LVL 1" selected.

OUT LV/L4

Changing the Display Brightness



You can dim the display window.



DIMMER ON Dims the display.

AUTO DIM*

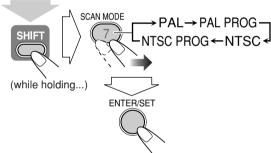
Removes the display illumination when starting playback a disc with a video

• The display illuminates when playback stops.

Changing the Scanning Mode (Source) (NFO)



This System supports progressive scanning. Select the video signal mode according to the type of your TV. If you connect a progressive TV through the VIDEO OUT jacks, you can enjoy a high quality picture from the built-in DVD player by selecting "NTSC PROG" or "PAL PROG."



	`
NTSC	Select for a conventional NTSC TV.
NTSC PROG	Select for a progressive NTSC TV. Select to enjoy a progressive scanned picture through the Video Component out terminal.
PAL	Select for a conventional PAL TV.
PAL PROG	Select for a progressive PAL TV. Select to enjoy a progressive scanned picture through the Video Component out terminal.

Changing the Picture Tone (Source) (Source)

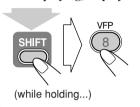




• While showing a playback picture on the TV, you can select a preset picture tone, or adjust it and store your own

To select a preset picture tone

1 While playing, display VFP setting screen.





On the TV

2 Select a preset picture tone.

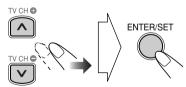


NORMAL	Normally select this.
CINEMA	Suitable for a movie source.
USER1/USER2	You can adjust parameters and can store the settings.

To remove the screen, press VFP again while holding SHIFT, or wait for more than 5 seconds.

To adjust the picture tone

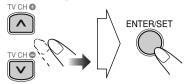
- 1 Select "USER1" or "USER2."
 - Follow steps 1 and 2 explained above.
- **2** Select a parameter you want to adjust.



GAMMA	Adjust if the neutral color is bright or dark $(-3 \text{ to } +3)$.
BRIGHTNESS	Adjust if the entire picture is bright or dark $(-8 \text{ to } +8)$.
CONTRAST	Adjust if the far and near positions are unnatural (–7 to +7).
SATURATION	Adjust if the picture is whitish or blackish (–7 to +7).
TINT	Adjust if the human skin color is unnatural (–7 to +7).
SHARPNESS	Adjust if the picture is indistinct (-8 to +8).

^{* &}quot;AUTO DIM" does not work for CD/MP3/WMA.

3 Adjust the parameter.



4 Repeat steps 2 to 3 to adjust other parameters.

To erase the screen, press VFP again while holding SHIFT, or wait for more than 5 seconds.

Setting the Clock Remote ONLY >>> INFO





Without setting the built-in clock, you cannot use Daily Timers (see page 34) and Sleep Timer.

• To correct a mis-entry during the process, press CANCEL or CLOCK/TIMER. You can return to the previous step.

1 Activate the clock setting mode.

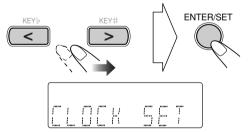




• If you have already adjusted the clock before, press the button repeatedly until the clock setting mode is selected.

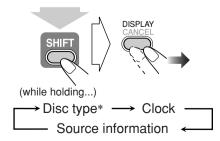
2 Set the time.

• Adjust the hour and press ENTER/SET, then adjust the minute and press ENTER/SET.



Now the built-in clock starts working.

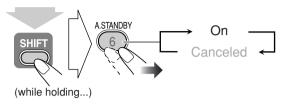
To check the current clock time during play



* This appears depending on the disc type.

Turning Off the Power Automatically 4

Auto Standby



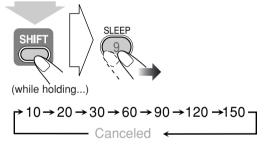
When Auto Standby is in use, the A.STBY indicator lights on the display.

When disc play stops, the A.STBY indicator starts flashing. If no operation is done for about 3 minutes while the indicator is flashing, the System turns off (on standby) automatically.

Sleep Timer

You can set the shut-off time so that you can go to bed without turning it off yourself.

1 Specify the time (in minutes).

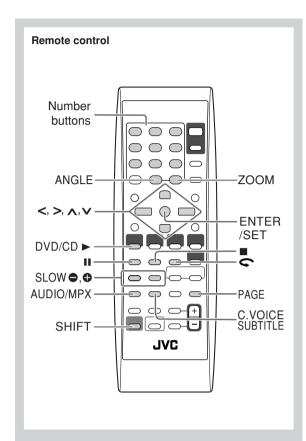


2 Wait until the set time disappears.

To check the time remaining until the shut-off time, press SLEEP while holding SHIFT.

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

Unique DVD/VCD Operations



Selecting the Audio Track (Semole) (NEO



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

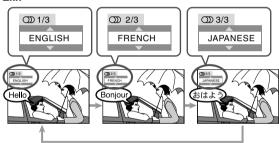
For DVD Audio: While playing back a track containing audio channels, you can select the audio channel to listen to. For DVD-VR and Karaoke CD/SVCD/VCD: When playing back a track, you can select the audio channel to

• You can also select the audio track using the on-screen bar (see page 23).



While playing a DVD Video...

Ex.:

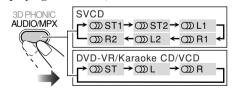


While playing a DVD Audio/DivX...

Ex.:



While playing a DVD-VR, or Karaoke CD/SVCD/VCD...



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

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

Selecting the Subtitle Language (Bendle)»)



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

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

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

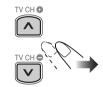
• You can also select the subtitle language using the onscreen bar (see page 23).

While playing a DVD Video/DivX...

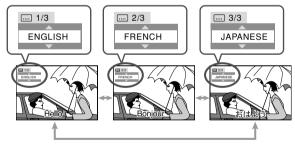
1



2



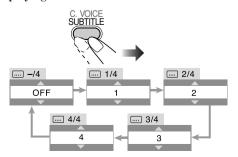
Ex.:



While playing a DVD-VR...



While playing an SVCD...



Selecting the View Angle Remote (NLY)

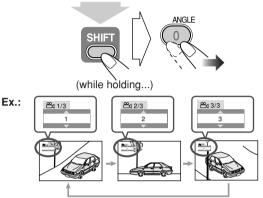




For DVD Video only: While playing back a chapter containing multi-view angles, you can view the same scene from different angles.

· You can also select the multi-view angles using the onscreen bar (see page 23).

While playing...

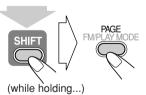


Selecting the Browsable Still Pictures [Selecting the Browsable Still Pictures | Selection | Pictures | Pic



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 automatically during playback.
- · You can also select the page using the on-screen bar (see page 23).



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

Playing Back Bonus Group (Remote ONLY)





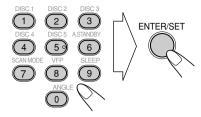
For DVD Audio only: Some DVD Audio discs have a special group called "bonus group" whose contents are not open to the public.

• To playback 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 10.

2 Enter the key number.



 $\boldsymbol{3}$ Follow the interactive instructions shown on the screen.

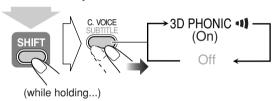
To cancel the key number entry, press ■.

Making Dialogues Clear—Clear Voice Remote (NLY)



When you playback a disc, you can use this function—Clear Voice. You can make the singer's voices or dialogues of the movie clear.

• This function only works when 3D Phonic is activated.



Special Effect Playback (Remote (NLY) (N)





Pause playback

To pause:	To resume normal playback:
While playing	DVD/CD

Frame-by-frame playback

1 While playing...



Still picture playback starts.

2 Advance the still picture frame by frame.



To resume normal playback, press DVD/CD ▶.

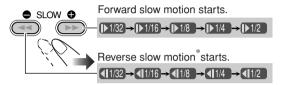
Slow-motion playback

- This does not function for MPEG-1/MPEG-2/ASF/DivX discs.
- 1 While playing...



Still picture playback starts.

2 Select slow motion speed.



*Only available for DVD Video.

To resume normal playback, press DVD/CD ▶.

To replay the previous scenes (One-Touch Replay)

• This function is only used while playing DVD Video/ DVD-VR.

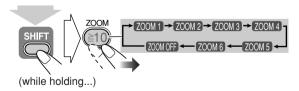
While playing back...



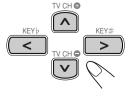
The playback position moves back about 10 seconds before the current position (only within the same title).

Zoom

- For JPEG, see page 28.
- **1** While playing back...

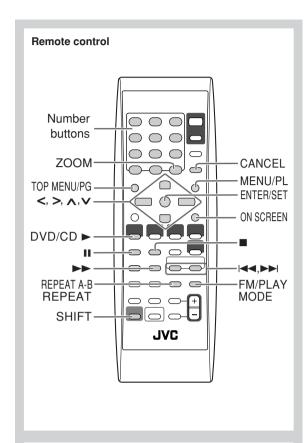


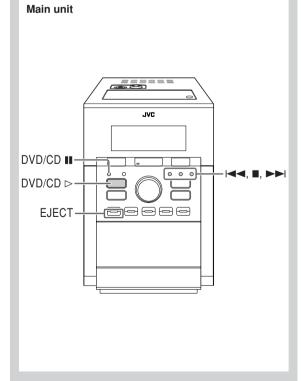
- · As the number increases, magnification also increases.
- **2** Move the zoomed-in position.



To cancel Zoom, press ZOOM (while holding SHIFT) repeatedly until "ZOOM OFF" appears on the TV.

Advanced Disc Operations





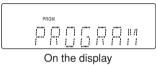
Programming the Playing Order— Program Play Remote >>> (NFO)

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

- Program play cannot be used for DVD-VR/JPEG/MPEG-1/MPEG-2/ASF/DivX.
- Resume does not work for Program Play.

1 Before starting playback, activate Program Play.







On the TV

2 Select chapters or tracks you want for Program Play.

- For DVD Video/DVD Audio/MP3/WMA:
- (1) Select a disc number.
- 2 Select a title or group number.
- 3 Select a chapter or track number.
- 4 Repeat the above steps 1 to 3.

• For SVCD/VCD/CD:

- (1) Select a disc number.
- Select tracks.
- 3 Repeat the above steps 1 and 2.

To enter the numbers directly:		
DISC 1 DISC 2 DISC 3 1 2 3 DISC 4 DISC 5 ASTANDBY 4 5 6 SCAN MODE VFP SLEEP 7 8 9 LINE QUIT LEVEL ANGLE 200M 10 0 210	Examples: To enter number 5, press 5. To enter number 10, press 10. To enter number 15, press ≥ 10 , 1, then 5. To enter number 30, press ≥ 10 , 3, then 0.	

3 Start playback.

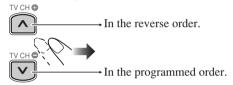


Playback starts in the order you have programmed.

To skip a step:	To pause:	To stop:
GROUP/TITLE SKIP	To release, press DVD/CD ▶.	

To check the programmed contents

Before or after playback...



• You can also use I or I to check the programmed contents.

To modify the program

Before or after playback...

To erase the last track:	To erase the entire program:	To add another track to the program:
DISPLAY		Repeat step 2.

To exit from Program Play

Before or after playback...

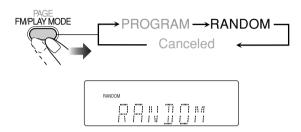


Playing at Random—Random Play (Semole)»)



You can play all chapters or tracks at random.

- Random Play cannot be used for DVD-VR/JPEG/ MPEG-1/MPEG-2/ASF/DivX and some DVDs.
- 1 Before starting playback, activate Random Play.



2 Start playback.



Playback starts in random order. Random Play ends when the entire disc has been played.

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

To exit from Random Play

Before or after playback...



Playing Repeatedly (Remote only)) (INFO)







- You can also select the repeat mode using the on-screen bar (see pages 24 and 25).
- For MP3/WMA/JPEG/MPEG-1/MPEG-2/ASF/DivX, see page 28.

Repeat Play

You can repeat playback.

• For DVD Video/Audio:

While playing...



• For CD/SVCD/VCD:

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

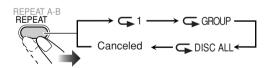


• For DVD-VR:

While playing an original program...



While playing a playlist...



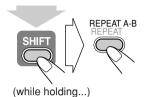
5 ,1	Repeats the current chapter/track.
Ģ, GROUP	Repeats the current title (for DVD Video)/group (for DVD Audio)/title of PG or PL (for DVD-VR).
Ç,1,DISC	Repeats the current disc.
,DISC,ALL	Repeats all discs.

A-B Repeat

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

• A-B Repeat cannot be used for MP3/WMA/MPEG-1/ MPEG-2/ASF/DivX and for some DVDs.

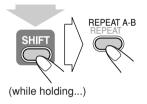
1 While playing (without PBC for SVCD/VCD), select the start point (A).



→ A- appears on the display.

• 🖒 A- appears on the TV if the TV is turned on

2 Select the end point (B).



ÇA-B appears on the display.

- 🖒 A-B appears on the TV.
- · You can search for the end point using the ▶▶ button.

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

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

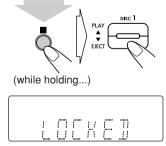
Prohibiting Disc Ejection—Child Lock



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

• This is possible only while the System is on standby.

While the disc trays are closed...

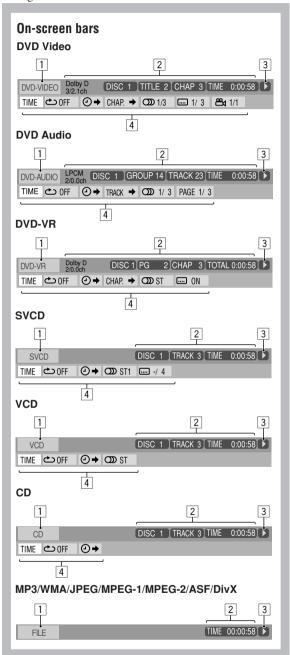


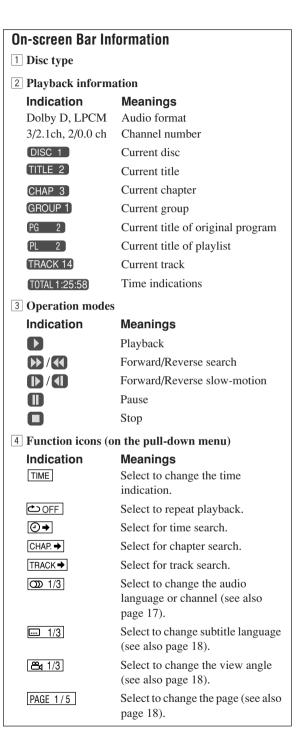
To cancel the prohibition, repeat the same procedure. "UNLOCKED" appears on the display.

On-screen Disc Operations (NFO) (NFO)



You can check the disc information and use some functions through the on-screen bar.



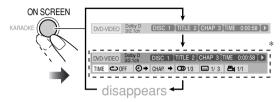


To operate using the On-screen Bar

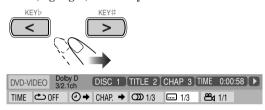
Ex.: Selecting a subtitle (French) for DVD Video

While a disc is selected as the source...

1 Display the entire on-screen bar.



- * This does not appear for MP3/WMA/JPEG/MPEG-1/ MPEG-2/ASF/DivX discs.
- **2** Select (highlight) the item you want.



3 Display the pop-up window.



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



5 Finish the setting.



Pop-up window disappears.

To remove the on-screen bar



For detailed operations of the following functions, see also "To operate using the On-screen Bar" on the left.

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



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



TIME	Elapsed playing time of the current chapter/track (except for DVD-VR).
REM	Remaining time of the current chapter/ track (except for DVD-VR).
TOTAL	Elapsed disc time.
T.REM	Remaining disc time.

To remove the on-screen bar



Repeat Play

- See also page 22.
- 1 While playing a disc (without PBC for SVCD/VCD), display the entire on-screen bar.
 - Repeat Play can be selected before starting playback, except for DVD Video/DVD-VR.
- 2 Select COFF.
- **3** Display the pop-up window.



4 Select the repeat mode you want.

A-B	Repeats a desired portion (see below).
TITLE	Repeats the current title.
GROUP	Repeats the current group.
DISC	Repeats the current disc.
ALL	Repeats all discs (except for DVD).
CHAPTER*	Repeats the current chapter.
TRACK*	Repeats the current track.
PG	Repeats the current title of original program (for DVD-VR only) (see also page 22).
PL	Repeats the current title of playlist (for DVD-VR only) (see also page 22).
OFF	Cancels Repeat Play.

^{*}During Program Play and Random Play, "STEP" appears.

5 Finish the setting.

ENTER/SET



A-B Repeat

- See also page 22.
- 1 While playing, display the entire on-screen bar.
- 2 Select COFF.
- **3** Display the pop-up window.



4 Select "A-B."



5 Select the start point (A).





6 Select the end point (B).

ENTER/SET



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

 Before pressing ENTER/SET, you can search for the end point using the ►► button. **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 (without PBC for SVCD/VCD), display the entire on-screen bar.

- Time Search can be used before starting playback, except for DVD Video/DVD-VR.
- **2** Select **②** → .
- **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 mis-entry, press Cursor < to erase the last entry.

5 Finish the setting.



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

Chapter/Track Search

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

- 1 While playing, display the entire on-screen bar.
- 2 Select CHAP. → or TRACK → .
- 3 Display the pop-up window.



4 Enter the desired chapter/track number.



Examples:

To select chapter/track 5, press 5.

To select chapter/track 10, press 1, then 0.

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

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

• To correct a mis-entry, press the number keys until the desired number shown in the pop-up window.

5 Finish the setting.



The System starts playing the searched chapter or track.

Browsable Still Pictures

• See also page 18.

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.

- If a track is linked to browsable still pictures (B.S.P.), they are usually shown automatically during playback.
- 1 While playing a DVD Audio, display the entire onscreen bar.
- 2 Select PAGE 1/5.
- **3** Display the pop-up window.



4 Select a still picture you want.



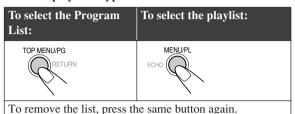
5 Finish the setting.

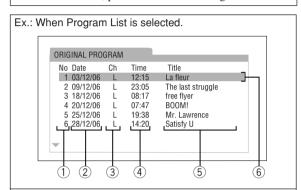


Control screen for DVD-R/-RW in DVD-VR format

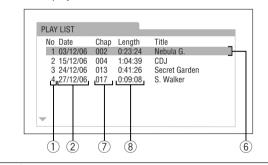
The control screen is superimposed on the TV screen when you call up Program List (PG) or playlist (PL).

To select playback type





Ex.: When playlist is selected.



- 1 Listed number
- 2 Recording date
- 3 Recording channels
- 4 Recording time
- 5 Title
- 6 Highlight bar (current selection)
- ⑦ Chapters included
- 8 Playback time

To select an item in the list and start playback



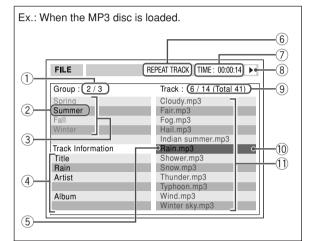
Operations on the Control Screen



You can search for and play the desired items through the control screen for MP3/WMA/JPEG/MPEG-1/MPEG-2/ASF/DivX discs.

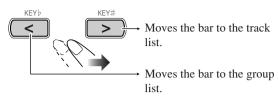
Control screen for MP3/WMA/JPEG/MPEG-1/ MPEG-2/ASF/DivX discs

The control screen automatically appears on the TV screen when you load an MP3, WMA JPEG, MPEG-1, MPEG-2, ASF or DivX disc.

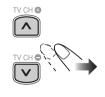


- ① Current group number/total group number
- (2) Current group
- 3 Group list
- (4) Track information (ID3 Tag Version 1.0: only for MP3/WMA)
- (5) Current track
- 6 Repeat Play setting
- ② Elapsed playing time of the current track (except for JPEG)
- 8 Operation mode icon
- Current track number/total number of tracks in the current group (total number of tracks on the loaded disc)
- 10 Highlight bar
- ① Track list
- If files of different types (MP3, WMA, JPEG, MPEG-1, MPEG-2, ASF and DivX) are recorded on a disc, select the file type to play (see page 36).

To move the highlight bar between group list and track list



To select an item in the list



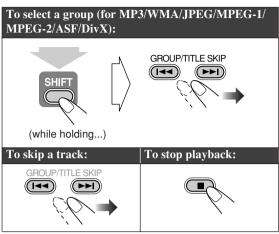
Move the highlight bar to the desired item.

 If you move the highlight bar while playing back an MP3/ WMA file or DVD-VR (PG/PL) disc, the selected track starts playback automatically.

To start playback

For JPEG:		
ENTER/SET	The selected track (still picture) is displayed until you change it.	
DVD/CD	Slide-show playback starts. Each track (still picture) is shown on the screen for about 3 seconds, then changes one after another.	
For the other files:		
ENTER/SET	Playback starts with the selected track. • Pressing DVD/CD ► also starts playback.	

- Once you start playing back a JPEG/MPEG-1/MPEG-2/ ASF/DivX track, the control screen disappears.
- To cancel slide-show and display the current still picture, press II.



 You can select a group directly by pressing a number button after pressing GROUP/TITLE (except for DVD-VR disc).

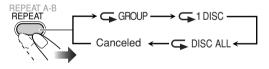
To repeat MP3/WMA playback

While playing or before playback...



To repeat slide-show for JPEG

While playing or before playback...



To repeat MPEG-1/MPEG-2/ASF/DivX playback

While playing or before playback...



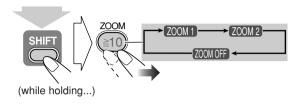
5 ,1	Repeats the current track.
Ģ, GROUP	Repeats the current group.
,1,DISC	Repeats the current disc.
,DISC,ALL	Repeats all discs.

To zoom in the JPEG files

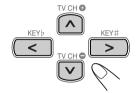
- You cannot zoom in the still picture during slide-show.
- For other discs, see page 19.

1 While playing back a still picture...

• During slide-show, press **II** to display the still picture, then...

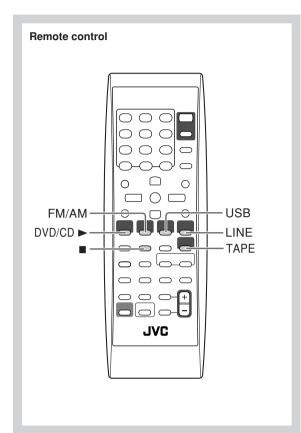


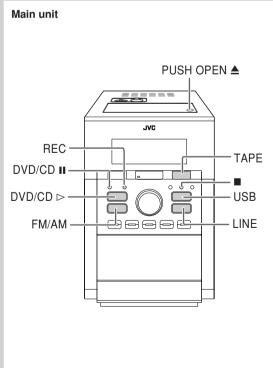
2 Move the zoomed-in position.



To cancel Zoom, press ZOOM (while holding SHIFT) repeatedly until "ZOOM OFF" appears on the TV.

Advanced Tape Operations





IMPORTANT

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

Recording on a Tape (NEO)

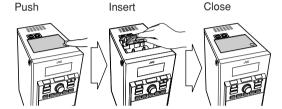






You can use type I tapes for recording.

- To play a tape, see page 9.
- 1 Insert a recordable cassette.



With the tape side facing outside

- 2 Select and start playing the source—"FM," "AM," "DVD/CD," "USB," or "LINE."
 - When recording a disc, you can also use "Synchronized Disc Recording" (see page 30).
- **3** Start recording.



On the main unit

To stop recording:

Synchronized Disc Recording (NEO)



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

To record the entire disc

1 Load a disc and insert a recordable cassette.

 If the current playing source is not the disc player, press DVD/CD ▶, then ■.

2 Start recording.



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

On the main unit

- When either disc play* or recording ends, both disc player and the cassette deck stop at the same time.
- * For DVD Video: When a title is finished playing.

To record Program Play

- 1 Select Program Play (and make a program), but do not start playback.
- 2 Press REC to start recording.
- When disc play stops, recording stops automatically.

To record only your favorite track

You can specify tracks to be recorded on the tape while listening to a disc (except for DVD Video/DVD-VR).

1 Start playing a disc.



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



On the main unit

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

3 Repeat steps 1 and 2 to record other tracks you want.

• You can change the disc if necessary.

To protect your recording

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

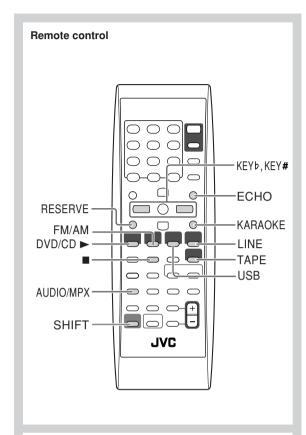
To protect your recording, remove these tabs.

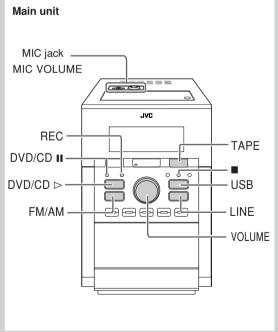


To re-record on a protected tape, cover the holes with adhesive tape.



Enjoying Karaoke





IMPORTANT

Always set MIC VOLUME to MIN when connecting or disconnecting the microphone.



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

Singing Along (Karaoke) (NEO









You can enjoy Karaoke using the Karaoke disc (except Karaoke CD).

- By pressing REC, you can record your singing-along (for SVCD/VCD without PBC).
- 1 Turn MIC VOLUME to MIN.



2 Connect the microphone (not supplied) to the MIC



- **3** Insert and start playing a Karaoke disc.
- 4 Select an audio track.



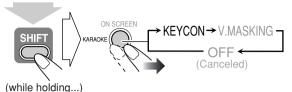
- For details, see "Selecting the Audio Track" on page 17.
- **5** Sing into the microphone.
- **6** Adjust the MIC VOLUME and VOLUME.



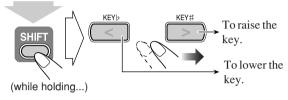


To adjust the Key (disc playback only)

1 Activate Key Control.



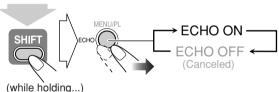
2 Adjust the Key



 Key Control cannot be activated for DVD Audio/ DVD-VR/MPEG-1/MPEG-2/ASF/DivX.

To deactivate Key Control, press KARAOKE (while holding SHIFT) to select "OFF."

To apply echo to your voice



To sing along using the stereo discs —Vocal Masking

You can enjoy Karaoke while playing a stereo disc. Vocal Masking reduces the lead vocal of any disc except DVD Audio and DVD-VR.

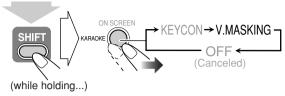
1 Turn MIC VOLUME to MIN.



- 2 Connect the microphone (not supplied) to the MIC jack.
- **3** Insert and start playing a stereo disc.



4 Activate Vocal Masking.



- **5** Sing into the microphone.
- 6 Adjust the MIC VOLUME and VOLUME.



• You can apply echo to your voice.

To deactivate Vocal Masking, select "OFF" in step 4.

Microphone Mixing











You can enjoy microphone mixing while playing any source.

- By pressing REC, you can record your singing-along (except when the playing source is "TAPE").
- 1 Turn MIC VOLUME to MIN.



- 2 Connect the microphone (not supplied) to the MIC jack.
- 3 Start playing the source—"FM," "AM," "DVD/CD," "USB," "TAPE," or "LINE."
- **4** Sing into the microphone.
- **5** Adjust the MIC VOLUME and VOLUME.





 You can apply echo to your voice. While playing a disc, you can also adjust Key Control and apply echo.

Reserving Karaoke Songs (Remote ONLY) >>>

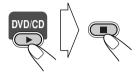


Karaoke Program Play

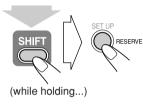
Vey and determine the playback and an

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

1 Change the source to "DVD/CD."



2 Activate Karaoke Program Play.





On the TV screen

- PRGM indicator flashes during this mode.
- 3 Select songs you want for Karaoke Program Play.
 Press the number buttons to select a song in the following
 - 1 Select a disc.

order.

- ② Select a title/group.
- 3 Select a chapter/track.

DISC 1 DISC 2 3 3 DISC 4 DISC 5 ASTANDBY 4 5 6 SCAN MODE VFP 7 8 9 LINEOUT LEVEL ANGLE 200M 10 0 \$\frac{10}{2}\$

Examples:

To select number 5, press 5. To select number 10, press 10. To select number 15, press \geq 10, 1, then 5.

To select number 30, press ≥ 10 , 3, then 0.

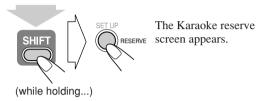
4 Start playback.



Playback starts in the order you have programmed.

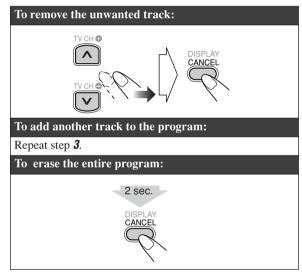
To check the programmed contents

During Karaoke Program Play...



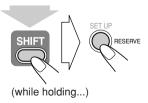
To modify the program

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

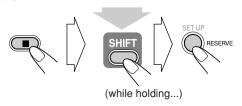


To exit from Karaoke Program Play

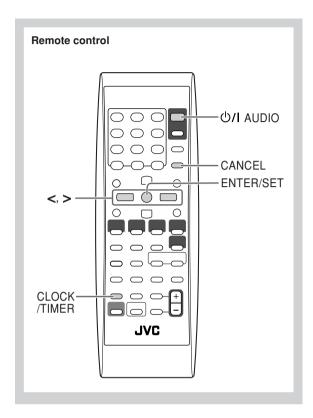
Before or after playback...



During playback...



Timer Operations



Setting the Timer Remote (NEO)





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

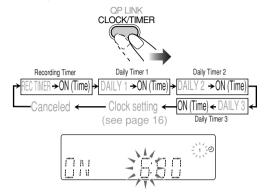
You can store three Daily Timer settings and one Recording Timer setting; however, you can activate only one of the timers at the same time.

- To exit from the timer setting, press CLOCK/TIMER as
- To correct a mis-entry during process, press CANCEL. You can go back to the previous step.

Recording Timer and Daily Timer initial settings when shipped from the factory

- REC TIMER: ON Time (6:00)/OFF Time (10:00)/ Source (TUNER FM 1)/Volume level (--)
- DAILY 1: ON Time (6:00)/OFF Time (8:00)/ Source (TUNER FM 1)/Volume level (--)
- DAILY 2: ON Time (12:00)/OFF Time (14:00)/ Source (TUNER FM 1)/Volume level (--)
- DAILY 3: ON Time (18:00)/OFF Time (20:00)/ Source (TUNER FM 1)/Volume level (--)

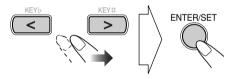
1 Select one of the timer setting modes you want to set— **REC TIMER (Recording Timer) ON time, DAILY 1** ON time, DAILY 2 ON time or DAILY 3 ON time.



Ex. When Daily Timer 1 setting mode is selected

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

Repeat the procedure for the following settings until finished:



For Recording Timer:

- 1) Set the hour then the minute for on-time.
- 2 Set the hour then the minute for off-time.
- 3 Select the playback source—"TUNER-FM," "TUNER-AM." or "LINE IN."
- (4) For "TUNER-FM" and "TUNER-AM": Select a preset channel.
- **5** Select the volume level.
 - You can adjust the volume level ("0" to "40" and "VOL --"). If you select "VOL --," the volume is set to the last level when the unit has been turned off.

For Daily Timers:

- 1) Set the hour then the minute for on-time.
- **2** Set the hour then the minute for off-time.
- 3 Select the playback source—"TUNER-FM," "TUNER-AM," "TAPE," "DISC," or "LINE IN."



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

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

- (5) Select the volume level.
 - You can adjust the volume level ("0" to "40" and "VOL -").

 If you select "VOL -," the volume is set to the last level when the unit has been turned off.

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

- This function is not available for VCD with PBC activated.
- 3 Turn off the unit (on standby) if you have set the on-time.



How Daily Timer works

Once the Daily Timer has been set, the timer indicator (②) and timer number indicator (1/2/3) are lit on the display. Daily Timer is activated at the same time everyday until the timer is turned off manually (see the next column) or another timer is activated.

When the on-time comes

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

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

When the off-time comes

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

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

How Recording Timer works

When Recording Timer has been set, Timer (0) indicator and the REC indicator are lit on the display. Recording Timer works only once.

When the on-time comes

The System turns on, tunes in to the specified station or changes the source to "LINE", and starts recording.

When the off-time comes

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

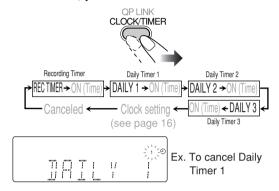
• The timer setting remains in memory until you change it.

To turn on or off the Timer

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

To cancel the Timer

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

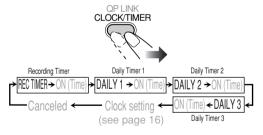


2 Turn off the selected Timer.



To turn on the Timer

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

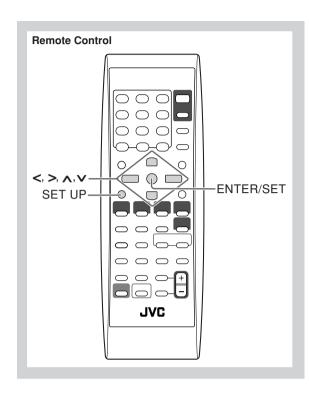


2 Activate the selected Timer.



3 Wait until the indication disappears.

Setup Menu Operations



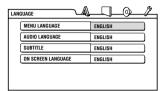
Initial settings (Remote only)





The Setup Menu cannot be activated during playback.

1 Press SET UP.



- **2** Press < (or >) to select the menu.
- **3** Press \wedge (or \vee) to select the item.
- 4 Press ENTER/SET.
- **5** Press \wedge (or \vee) to select the options, then press ENTER/SET.
 - For settings of the LANGUAGE menu, see also "Language Code List" on page 42.

To remove a preference display Press SET UP.



LANGUAGE menu

Item	Contents
MENU LANGUAGE	You can select the initial menu language of the DVD Video.
AUDIO LANGUAGE	You can select the initial audio language of the DVD Video.
SUBTITLE	You can select the initial subtitle language of the DVD Video.
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 playback DVD Video discs recorded for
16:9 4:3 LB	wide-screen televisions. 16:9/16:9 MULTI (Wide television screen): For a wide-screen (16:9) 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. • For multi-color system TVs, select the [MULTI] option.
PICTURE SOURCE	You can obtain optimal picture quality by selecting the source type of the disc contents. AUTO: Normally, select this option. The System recognizes the picture type (film or video source) of the current disc according to the disc information. FILM: For a film source disc.
	VIDEO: For a video source disc.
SCREEN SAVER	You can set the screen saver function to ON or OFF . If no operation is done for about 5 minutes, the display dims.
FILE TYPE	You can select the file type to play. AUDIO: To play MP3/WMA files. STILL PICTURE: To play JPEG files. VIDEO: To play MPEG-1, MPEG-2, ASF and DivX files.



AUDIO menu

Item	Contents			
DIGITAL AUDIO OUTPUT	Set this item correctly when using the DVD OPTICAL DIGITAL OUT terminal on the rear.			
	PCM ONLY: When connecting to audio equipment which can decode only linear PCM signals.			
	DOLBY DIGITAL/PCM: When connecting to a Dolby Digital decoder or an amplifier with a built-in Dolby Digital decoder.			
	STREAM/PCM: When connecting to a DTS decoder or an amplifier with a built-in DTS 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 to a surround decoder.			
	STEREO: Select this when connecting to a stereo receiver, MD player, TV, etc.			
D.RANGE COMPRESSION	Set this item to listen to DVD Video recorded in Dolby Digital format at low or middle volume.			
	AUTO: You can enjoy powerful playback sound with full dynamic range.			
	ON: Select this when you want to fully apply the compression effect to make the sound at lower			
	volume clear (useful at midnight).			



OTHERS menu

Item	Contents			
RESUME	You can select Resume. ON: The System resumes playback from the position where playback has been stopped if the disc is still in the disc tray. OFF: Resume is deactivated.			
ON SCREEN GUIDE	Activate or 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 disc in which the Registration Code is recorded, the System's Registration Code is overwritten for copyright protection.			

Additional Information

Learning More about This System



Connections (see pages 3 to 5)

- 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.
- Use only speakers with the same speaker impedance as indicated by the speaker terminals on the rear of the System.
- The speakers are magnetically shielded to avoid color distortions on TVs. However, if not installed properly, it may cause color distortions. So, pay attention to the following when installing the speakers.
 - When placing the speakers near a TV set, turn off the TV's main power switch or unplug it before installing the
 - 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 instructions. If this happens, move the speakers away from the TV.
- When a portable audio device is connected to the LINE IN jack, sound will come out of the speakers and headphones. However, no sound will come out of the LINE OUT jack.

Daily Operations—Playback (see pages 7 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 will be erased in a few days. If this happens, preset the stations again.

Playing Back a Disc:

- On some DVD, SVCD, or VCD discs, the actual operations may be different from what is explained in this manual, due to the programming and disc structure; such differences are not a malfunction of this System.
- When discs* in more than one tray are loaded on the disc trays, they are played in sequence as follows. (When DVD Video, DVD Audio or SVCD/VCD with PBC is loaded in the System, playback of the disc next to these discs will not start.):
- Ex.: When DISC 2 is selected: DISC 2⇒DISC 3⇒DISC 4⇒DISC 5⇒DISC 1⇒ (then stops)
- * When no disc is loaded on the disc tray, that disc number is skipped.

- You can exchange discs while playing or selecting another disc.
- Some DVD Audio discs prohibit downmix. When you playback such a disc, "LR ONLY" appears on the display and the System plays back the left front and right front signals.
- When playing back a DVD Audio disc recorded in MLP (Meridian Lossless Packing; a lossless audio compression system that can completely recreate the PCM signal), the signals are recognized as the linear PCM signals, however, no indicator lights up on the display.
- This System can recognize up to 4 000 tracks in a disc. Also, the System can recognize up to 150 tracks per group and up to 99 groups in a disc.
- If there are any unplayable files in a folder, those files are also counted in the total file number.
- Playable files which do not belong to any groups are handled as Group 1.
- For DVD-VR playback...
 - This System can play only a disc of UDF-Bridge format.
- For details about DVD-VR format and playlist, refer to the manual of the recording equipment.
- You cannot use reverse slow motion, Program Play, or Random Play.
- For MP3/WMA playback...
 - MP3/WMA discs require a longer readout time than regular CDs. (It depends on the complexity of the group/ file configuration.)
- Some MP3/WMA files cannot be played back and will be skipped. This results from their recording processes and conditions.
- This System can play only a disc of ISO 9660 Level 1 or
- This System can playback MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- It is recommended that you make each MP3/WMA file at a sampling rate of 44.1 kHz and at a bit rate of 128 kbps. This System cannot playback files made at a bit rate of less than 64 kbps.
- For JPEG files playback...
 - It is recommended that you record a file at 640 x 480 resolution. (If a file has been recorded at a resolution of more than 640 x 480, it will take a long time to be shown.)
 - This System can play only baseline JPEG files*. Progressive JPEG files* or lossless JPEG files* cannot be played.
 - * Baseline JPEG format: Used for digital cameras, web, etc.

Progressive JPEG format: Used for web.

Lossless JPEG format: An old type and rarely used

now.

- This System can playback JPEG files with the extension code <.jpg> or <.jpeg> (regardless of the letter case upper/lower).
- This System may not playback JPEG files properly if they are recorded on a device other than a digital still camera.
- During slide-show playback, zoom cannot be operated.
- For MPEG-1/MPEG-2 playback...
- 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 playback depending on file characteristics, kind of digital camera/ video camera, or recording conditions.
- You cannot use the following functions—One Touch Replay, Slow motion, A-B Repeat, Program Play and Random Play.
- For DivX playback...
 - This System can play only a disc of 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 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.
- You cannot use the following functions—One Touch Replay, Slow motion, A-B Repeat, Program Play, Random Play and on-screen operations.

Playing Back a Portable Audio Device:

 When QP Link fails due to a weak sound signal from the LINE IN jack, Auto Standby may turn the System off even if you can hear the sound from the speakers.

- In such cases, adjust the volume level of the component louder so that the System can detect the sound signal properly.
- Changing from LINE to another source while QP Link works will deactivate QP Link temporarily.
 In this case, the following reactivates QP Link:
- Pressing QP LINK on the remote control.
- Unplugging the component from the LINE IN jack, then plugging it again.
- If you press STANDBY ***O/I** to turn the System off or if preset Timer turns the System off while QP Link works, the System will deactivate QP Link temporarily. In such cases, the following reactivates QP Link:
 - When no sound signal comes from the LINE IN jack for about 30 seconds after the System is turned off.
- When you turn on the power again.
- QP Link may start working when you just plug in the component to the LINE IN jack or unplug it. This is not a malfunction.

Playing Back from the PC:

- Check if your PC equipped with the CD-ROM drive is running on Windows® 98*, Windows® 98SE*, Windows® Me*, Windows® 2000*, or Windows® XP* and prepare its CD-ROM.
- *Microsoft®, Windows® 98, Windows® 98SE, Windows® Me, Windows® 2000 and Windows® XP are registered trademarks of Microsoft corporation.
- DO NOT turn off the System or disconnect the USB cable while installing the drivers or until your PC has recognized the System.
- Use a full speed USB cable (version 1.1).
- If your PC does not recognize the System, disconnect the USB cable and connect it again. If this does not work, restart Windows.
- The drivers installed can be recognized only when the USB cable is connected between the System and your PC.
- The sound may not be played back correctly—interrupted or degraded—due to your PC settings or PC specifications.

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

Adjusting the Sound:

 This function also affects the sound through the headphones.

Changing the Scanning Mode:

- 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 system using a component video cord.

Setting the Clock:

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

Unique DVD/VCD Operations (see pages 17 to 19)

Selecting the Audio Track:

 On some DVD Video discs, you cannot change audio languages while playing back.

Special Effect Playback:

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

Advanced Disc Operations (see pages 20 to 28)

Programming the Playing Order—Program Play:

- While programming steps...
 - You cannot eject any discs from the disc trays.
 - Your entry will be ignored if you have tried to program an item number that does not exist (for example, selecting track 14 on a disc that only has 12 tracks).

Playing Repeatedly:

- When DVD Video or DVD Audio is loaded in this System, playback of the disc next to the DVD Video or DVD Audio will not start, although ♣ALL /REPEAT ALL on the TV screen or ♣ ALL in the display window is shown.
- A-B Repeat can be used within the same title while playing a DVD Video, and within the same track for the other discs.

On-screen Disc Operations:

 For DVD-R/-RW in the VR format, "PG" or "PL" appears instead of "TITLE" on the on-screen bar.

Operations on the Control Screen:

• If you press ON SCREEN on the remote control during playback, playback information appears on the TV screen.

Advanced Tape Operations (see pages 29 and 30)

Recording on a Tape:

- The recording level is automatically set correctly. Thus, you can adjust the sound you are actually listening to without affecting the recording level.
- There is leader tape which cannot be recorded onto at the start and end of cassette tapes. Thus, when recording CDs or radio broadcasts, wind the leader tape first to ensure that the recording will be made without any music part lost.
- If you start recording with no cassette inserted, "NO REC" appears on the display. If a protected tape has been inserted, "NO REC" appears.
- You cannot open or close the disc tray while recording a disc.

Synchronized Disc Recording:

• Synchronized recording does not function on the file format of MPEG-1, MPEG-2, ASF, and DivX.

Enjoying Karaoke (see pages 31 to 33)

Singing Along (Karaoke):

 Karaoke mode setting (Key Control and Vocal Masking) can be used when selecting "DVD/CD" as the source, except for DVD-VR/DVD Audio/MPEG-1/MPEG-2/ASF/ DivX discs.

- Even if the source is "DVD/CD," Karaoke mode setting cannot be used while "NO DISC" appears on the display.
- Karaoke mode setting is automatically canceled when the source is changed.
- Even when the microphone is not used, Key Control and Vocal Masking are available.
- Karaoke mode setting is also applied to the optical digital output signals.
- When Vocal Masking is activated, 3D Phonic will be canceled temporarily.
- On some music discs, Vocal Masking does not provide the correct effect.
- You can also use the microphone when selecting the source other than "DVD/CD."

Timer Operations (see pages 34 and 35)

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 the 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.
- If you set DVD Video as the source, Daily Timer will not work correctly.

Timer Priority:

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

Setup Menu Operations (see pages 36 and 37)

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 while playing a disc. This depends on how the discs are recorded.
- When you select "16:9/16:9 MULTI" 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.



General:

Adjustments or settings are suddenly canceled before vou 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.

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

⇒ Select "4:3 LB/4:3 MULTI LB" for "MONITOR TYPE" (see page 36).

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 Playback Operations:

The disc does not play.

- ⇒ You have inserted a disc 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/WMA disc cannot be shown.

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

Groups and tracks are not played back as you expect.

⇒ The playing order is determined when the groups and tracks were recorded. It depends on the writing application.

MP3, WMA, JPEG, MPEG-1, MPEG-2, ASF or DivX files are not played back.

- ⇒ The disc may include different types of tracks (MP3/ WMA files, JPEG files and MPEG-1/MPEG-2/ASF/ DivX files). In this case, you can only playback the files selected by the "FILE TYPE" setting (see page 36).
- ⇒ You have changed the "FILE TYPE" setting after the System read the disc. In this case, reload the disc.

"NO AUDIO" appears.

⇒ This System cannot playback illegally produced DVD Audio discs.

"LR ONLY" appears.

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

The disc sound is discontinuous.

⇒ The disc is scratched or dirty.

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

⇒ Some DVDs are programmed to always display no subtitle initially. If this happens, press SUBTITLE after starting playback (see page 18).

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

⇒ Some DVDs are programmed to always use the original language initially. If this happens, press AUDIO/MPX after starting playback (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 in the display window (see page 22).

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.

USB Operations:

Unable to playback through the USB connection.

⇒ USB connection and setting is incorrect.

Playback stops.

- ⇒ Disconnect and connect the USB cable again.
- ⇒ Restart the music software on your PC.
- ⇒ Turn off and on the System.

Timer Operations:

Daily Timer does not work.

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

Daily Timer does not start playback.

- ⇒ The disc loaded is a DVD Video. Change the disc.
- ⇒ Title/group number and chapter/track number are not entered while setting the Daily Timer. Do not skip these steps when you want to play a disc using Daily Timer.

Language Code List

AA	Afar		
AB	Abkhazian		
AF	Afrikaans		
AM	Ameharic		
AR	Arabic		
AS	Assamese		
AY	Aymara		
AZ	Azerbaijani		
BA	Bashkir		
BE	Byelorussian		
BG	Bulgarian		
BH	Bihari		
BI	Bislama		
BN	Bengali, Bangla		
ВО	Tibetan		
BR	Breton		
CA	Catalan		
CO	Corsican		
CS	Czech		
CY	Welsh		
DA	Danish		
DZ	Bhutani		
EL	Greek		
EO	Esperanto		
ET	Estonian		
EU	Basque		

FI Finnish FJ Fiji KO Korean (KOR) FO Faroese KS Kashmiri KU Kurdish KY Kirghiz GD Scots Gaelic GL Galician GN Guarani GU Gujarati HA Hausa HI Hindi HI Hindi HU Hungarian HU Hungarian HY Armenian HA Interlingua HI Interlingua HI Indindish KY Kirghiz LA Latin LN Lingala LO Laothian LV Latvian, Lettish MG Malagasy MI Maori MI Maori MI Maori MI Maori MI Malayalam MI Mongolian MI Malayalam MI Mongolian MI Malayalam MI Malayalam MI Malayalam MI Malayalam MI Malayalam MI Malayalam MI Mongolian MI Mon	FA	Persian	KM	Cambodian
FO Faroese FY Frisian GA Irish GA Irish GD Scots Gaelic GL Galician GN Guarani GU Gujarati HA Hausa HI Hindi HI Hindi HU Hungarian HY Armenian HY Armenian HX Interlingua HK Inupiak HK Inu	FI	Finnish	KN	Kannada
FY Frisian GA Irish GA Irish GD Scots Gaelic GL Galician GN Guarani GU Gujarati HA Hausa HI Hindi HI Hindi HU Hungarian HY Armenian HY Armenian HK Inupiak HK Inupiak HK Inupiak HK Indonesian HK Indonesian HW Hebrew HB Hebrew HB Hebrew HB Hebrew HB Hebrew HC Hebrew HC Hebrew HC Hongarian HC Hebrew HC Hebrew HC Hebrew HC Hongarian HC Hebrew HC Hebrew HC Hebrew HC Hebrew HC Hebrew HC Hongarian HC Halayalam HC Malayalam HC Moldavian HC Moldavian HC Malayalam HC Moldavian HC Moldavian HC Malese HC MY Burmese HC MY Burme	FJ	Fiji	KO	Korean (KOR)
GA Irish GD Scots Gaelic GL Galician GN Guarani GU Gujarati HA Hausa HI Hindi HU Hungarian HY Armenian HA Interlingua HK Inupiak HK Inupiak HK Inupiak HK Indonesian HW Hebrew HG Hebrew JJ Yiddish JW Javanese KY Kirghiz LA Latin LA Latin LN Lingala LO Laothian LU Latvian, Lettish HM Malagasy MI Maori MK Macedonian MK Macedonian MK Macedonian MK Macedonian MR Marathi MR Marathi MR Marathi MR Marathi MR Malay (MAY) MR Malay (Faroese	KS	Kashmiri
GD Scots Gaelic GL Galician GN Guarani GU Gujarati HA Hausa HI Hindi HR Croatian HU Hungarian HY Armenian HK Inupiak HK Inupiak HK Inupiak HN Indonesian HW Hebrew HW Hebrew HW Hebrew HW Harani HW Hebrew HW Hebrew HW Harani HW Hebrew HW Hebrew HW Hongarian HW Hebrew HW Hebrew HW Hebrew HW Hongarian HW Hongarian HW Hebrew HW Holtzel HW Hebrew HW Hebrew HW Holtzel HW Hebrew HW Hebrew HW Holtzel HW Hebrew HW Holtzel HW Hebrew HW Holtzel HW Holtz	FY	Frisian	KU	Kurdish
GL Galician GN Guarani GU Gujarati HA Hausa HI Hindi HR Croatian HU Hungarian HY Armenian HE Interlingue HK Inupiak HI Indonesian HW Hebrew HB IN Javanese HW Hayanese HW Hebrase HW Hebrase HW Hayanese HW Hayanase HW Hayanasa	GA	Irish	KY	Kirghiz
GN Guarani GU Gujarati HA Hausa HI Hindi HR Croatian HU Hungarian HY Armenian HE Interlingue HK Inupiak HK Inupiak HK Inupiak HK Inupiak HK Indinesian HY Hebrew HY Hebrew HY Horse HY	GD	Scots Gaelic	LA	Latin
GU Gujarati HA Hausa LV Latvian, Lettish HI Hindi MG Malagasy HR Croatian HU Hungarian HY Armenian IA Interlingua IE Interlingue IK Inupiak IN Indonesian IN Indonesian IN Hebrew MY Burmese JI Yiddish JW Javanese KA Georgian KU Lithuanian MK Malagasy MI Malayalam MK Macedonian MK Macedonian MK Macedonian MK Macedonian MK Macedonian MK Malayalam MN Mongolian MN Mongolian MN Mongolian MN Marathi MN Marathi MN Marathi MS Malay (MAY) MS Malay (MAY) MS Malay (MAY) MS Hebrew MY Burmese MY Burmese MY Burmese MY Burmese NE Nepali NA Nauru NE Nepali	GL	Galician	LN	Lingala
HA Hausa HI Hindi HR Croatian HU Hungarian HY Armenian HI Interlingua HI Interlingua HI Interlingua HI Indonesian HI Indonesian HI Indonesian HI Hebrew HI Hebrew HI Malayalam HI Mongolian	GN	Guarani	1	Laothian
HI Hindi HR Croatian HU Hungarian HY Armenian IA Interlingue IK Inupiak IN Indonesian IN Indonesian IN Hebrew HU Hebrew HU Hebrew HU Malayalam MO Moldavian MO Mo		"		
HR Croatian HU Hungarian HY Armenian IA Interlingua IE Interlingue IK Inupiak IN Indonesian IS Icelandic IW Hebrew JI Yiddish JW Javanese KA Georgian KI MI Maori MK Macedonian ML Malayalam MN Mongolian MO Moldavian MR Marathi MS Malay (MAY) MS Ma	HA	Hausa		Latvian, Lettish
HU Hungarian HY Armenian IA Interlingua IE Interlingue IK Inupiak IN Indonesian IS Icelandic IW Hebrew JI Yiddish JW Javanese KA Georgian KK Mazedonian ML Malayalam MN Mongolian MN Mongolian MN Moldavian MR Marathi MS Malay (MAY) MT Maltese MY Burmese MY Burmese NA Nauru NE Nepali NL Dutch NO Norwegian	HI	Hindi	MG	0 0
HY Armenian IA Interlingua IE Interlingue IK Inupiak IN Indonesian IS Icelandic IW Hebrew JI Yiddish JW Javanese IKA Georgian IK Malayalam MN Mongolian MN Moldavian MR Marathi MS Malay (MAY) MT Maltese MY Burmese MY Burmese NA Nauru NE Nepali NL Dutch NO Norwegian	HR	Croatian	MI	Maori
IA Interlingua IE Interlingue IK Inupiak IN Indonesian IS Icelandic IW Hebrew JI Yiddish JW Javanese IKA Georgian IM Mongolian MO Moldavian MR Marathi MS Malay (MAY) MT Maltese MY Burmese MY Burmese NA Nauru NE Nepali NL Dutch NO Norwegian	HU	Hungarian	MK	Macedonian
IE Interlingue MO Moldavian IK Inupiak MR Marathi IN Indonesian MS Malay (MAY) IS Icelandic MT Maltese IW Hebrew MY Burmese JI Yiddish NA Nauru JW Javanese NE Nepali KA Georgian NL Dutch KK Kazakh NO Norwegian	HY	Armenian	ML	Malayalam
IK Inupiak MR Marathi IN Indonesian MS Malay (MAY) IS Icelandic MT Maltese IW Hebrew MY Burmese JI Yiddish NA Nauru JW Javanese NE Nepali KA Georgian NL Dutch KK Kazakh NO Norwegian				
IN Indonesian IS Icelandic IW Hebrew JI Yiddish JW Javanese KA Georgian KK Kazakh MS Malay (MAY) MT Maltese MY Burmese NA Nauru NE Nepali NL Dutch NO Norwegian	IE		MO	Moldavian
IS Icelandic MT Maltese IW Hebrew MY Burmese JI Yiddish NA Nauru JW Javanese NE Nepali KA Georgian NL Dutch KK Kazakh NO Norwegian	IK		MR	Marathi
IW Hebrew JI Yiddish JW Javanese KA Georgian KK Kazakh MY Burmese NA Nauru NE Nepali NL Dutch NO Norwegian				
JI Yiddish JW Javanese KA Georgian KK Kazakh NA Nauru NE Nepali NL Dutch NO Norwegian		Icelandic		
JWJavaneseNENepaliKAGeorgianNLDutchKKKazakhNONorwegian	IW	Hebrew	MY	Burmese
KA Georgian NL Dutch KK Kazakh NO Norwegian	_	Yiddish	NA	Nauru
KK Kazakh NO Norwegian	_	Javanese		
KL Greenlandic OC Occitan				
	KL	Greenlandic	OC	Occitan

OM	(Afan) Oromo
OR	Oriya
PA	Panjabi
PL	Polish
PS	Pashto, Pushto
PT	Portuguese
QU	Quechua
RM	Rhaeto-Romance
RN	Kirundi
RO	Rumanian
RW	Kinyarwanda
SA	Sanskrit
SD	Sindhi
SG	Sangho
SH	Serbo-Croatian
SI	Singhalese
SK	Slovak
SL	Slovenian
SM	Samoan
SN	Shona
SO	Somali
SQ	Albanian
SR	Serbian
SS	Siswati
ST	Sesotho
SU	Sundanese

SV	Swedish			
SW	Swahili			
TA	Tamil			
TE	Telugu			
TG	Tajik			
TH	Thai			
TI	Tigrinya			
TK	Turkmen			
TL	Tagalog			
TN	Setswana			
TO	Tonga			
TR	Turkish			
TS	Tsonga			
TT	Tatar			
TW	Twi			
UK	Ukrainian			
UR	Urdu			
UZ	Uzbek			
VI	Vietnamese			
VO	Volapuk			
WO	Wolof			
XH	Xhosa			
YO	Yoruba			
ZU	Zulu			

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 temperature, and moisture.

To clean the disc:

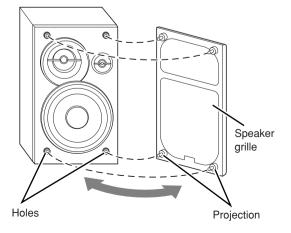
Wipe the disc with a soft cloth in a straight line from center to edge.

Cleaning the System

- Stains should be wiped off with a soft cloth. If the System is heavily stained, wipe it with a cloth soaked in water-diluted neutral detergent and wrung well, then wipe clean with a dry cloth.
- Since the System may deteriorate in quality, become damaged or get its paint peeled off, be careful about the following:

- DO NOT wipe it with a hard cloth.
- DO NOT wipe it 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.

To remove the speaker grilles:

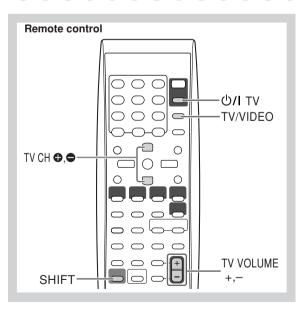


OPTICAL DIGITAL OUT Signals

DIGITAL AUDIO	Output Signals				
OUTPUT	Output Signais				
Playback disc	STREAM/PCM	DOLBY DIGITAL/PCM	PCM ONLY		
DVD Video					
with 48 kHz, 16/20/24 bit Linear PCM		48 kHz, 16 bit Linear PCM*			
with 96 kHz, Linear PCM		48 kHz, 16 bit Linear PCM			
with Dolby Digital	Dolby Dig	ital bitstream	48 kHz, 16 bit Linear PCM		
with DTS	DTS bitstream	t Linear PCM			
DVD Audio					
with 48/96/192 kHz, 16/20/24 bit Linear PCM		48 kHz, 16 bit Linear PCM*			
with 44.1/88.2/176.4 kHz, 16/20/24 bit Linear PCM	44.1 kHz, 16 bit Linear PCM*				
with Dolby Digital	Dolby Dig	ital bitstream	48 kHz, 16 bit Linear PCM		
with DTS	DTS bitstream	48 kHz, 16 bi	t 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 Dig	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/MPEG-1/MPEG-2/DivX	32/44.1/48 kHz, 16 bit Linear PCM				
ASF	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 DVD OPTICAL DIGITAL OUT terminal.

Operating JVC's TVs Using the Remote Control



You can use the remote control to operate JVC's TVs.

ტ/I TV	Turn on/off TV.		
While holding SHIFT, press			
TV CH ⊕, ⊕	Change the channels.		
TV VOLUME +,-	Adjust the volume.		
TV/VIDEO	Change the input mode.		



Amplifier section—CA-UXG70

Output Power: $160 \text{ W} (80 \text{ W} + 80 \text{ W}) \text{ at } 6 \Omega (10\% \text{ THD})$

Audio Input LINE IN:

> $500 \text{ mV}/49 \text{ k}\Omega \text{ (at "L.IN LVL1")}$ 250 mV/49 k Ω (at "L.IN LVL2") $125 \text{ mV}/49 \text{ k}\Omega \text{ (at "L.IN LVL3")}$

MIC:

 $1.6 \text{ mV}/10 \text{ k}\Omega$

Audio Output LINE OUT:

1.0 Vrms (3 k Ω) (at "L.OUT LVL1") 500 mVrms (1.5 k Ω) (at "L.OUT LVL2") SUBWOOFER OUT: 260 mVrms/3.9 kΩ

HEADPHONES OUT: $17 \text{ mW}/32 \Omega$

Digital output: DVD OPTICAL DIGITAL OUT:

 $-21 \text{ dBm to } -15 \text{ dBm } (660 \text{ nm } \pm 30 \text{ nm})$

USB input: **USB AUDIO**

Video output:

Color system: NTSC or PAL(interlaced/progressive) VIDEO (composite): 1 V(p-p)/75 Ω

S-VIDEO: Y (luminance) 1 V(p-p)/75 Ω

C (chrominance, burst)

NTSC $0.286 \text{ V(p-p)/}75 \Omega$ PAL $0.3 \text{ V(p-p)/75 }\Omega$ COMPONENT: (Y) 1 V(p-p)/75 Ω

 (P_B/P_R) $0.7 \text{ V(p-p)/}75 \Omega$ $6\Omega - 16\Omega$

Speaker impedance: Headphone impedance: $16 \Omega - 1 k\Omega$

Tuner section

FM tuning range: 87.5 MHz - 108.0 MHz

AM (MW) tuning range:

531 kHz – 1 710 kHz (at 9 kHz intervals) 530 kHz – 1 710 kHz (at 10 kHz intervals)

For Saudi Arabia only:

531 kHz – 1 602 kHz (at 9 kHz intervals) 530 kHz - 1 600 kHz (at 10 kHz intervals)

Tape section

Frequency response: $60 \text{ Hz} - 14\,000 \text{ Hz}$ Wow and flutter: 0.15 % (WRMS)

Disc player section

Region codes: Middle East: 2

South East Asia: 3

Playable disc: DVD Video/DVD Audio/CD/VCD/SVCD

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

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

DVD-R/-RW (DVD-VR/DVD Video/MP3/ WMA/JPEG/MPEG-1/MPEG-2/ASF/DivX

+R/+RW(DVD Video format) DVD-ROM (DVD Video format)

Dynamic range: 80 dBHorizontal resolution: 500 lines Wow and flutter: Immeasurable

General

Power requirement:

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

95 W (at operation) Power consumption:

18 W (at standby)

3.9 W (at standby display OFF mode)

Dimensions (approx.): 175 mm x 250 mm x 411 mm

(W/H/D)

Mass (approx.):

7.9 kg

Speakers—SP-UXG70

Speaker units: 1.5 cm dome x 1 Tweeter: Sauawker: 4 cm cone x 1

> Woofer: 13.5 cm cone x 1 6Ω

Impedance: Dimensions (approx.): 166 mm x 250 mm x 232 mm (W/H/D)

Mass (approx.): 2.8 kg each

Supplied Accessories

See page 3.

Design and specifications are subject to change without notice.

- Manufactured under license from Dolby Laboratories. "Dolby". "Pro Logic", "MLP lossless", and the double-D symbol are trademarks of Dolby Laboratories.
- "DTS" and "DTS 2.0+ Digital Out" are registered trademarks of Digital Theater Systems, Inc.
- "Official DivX® Certified product" "Plays all versions of DivX® video (including DivX® 6) with standard playback of DivX® media files" "DivX, DivX certified, and associated logos are trademarks of DivX, Inc. and are used under licence."
- USE OF THIS PRODUCT IN ANY MANNER THAT COMPLIES WITH THE MPEG-4 VISUAL STANDARD IS PROHIBITED, EXCEPT FOR USE BY A CONSUMER ENGAGING IN PERSONAL AND NON-COMMERCIAL ACTIVITIES.
- This product incorporates copyright protection technology that is protected by 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.

"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

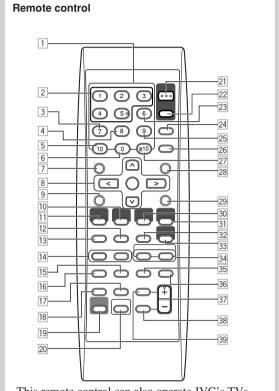


neillote collitor		
Button		Page
ひ/I AUDIO	21	7, 35
ტ/I TV	22	43
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▶ , ◄	14	9, 11
▶ , ₩	34	9, 11, 21, 28
II	13	10, 19, 21, 27
\land , \lor , \gt , \lt , ENTER/SET	8	9, 11, 14, 15, 16, 18, 19, 21, 24 – 28, 33 – 36
C.VOICE	15	19
← (One-Touch Replay)	32	19
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AHB PRO	17	13
ANGLE	6	18
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BASS/TREBLE	39	13
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RESERVE	9	33
RETURN	7	11
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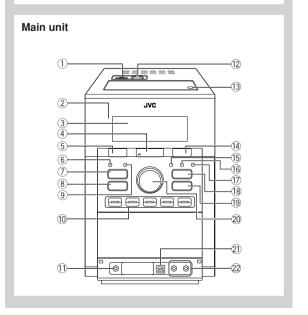
Main unit

Button		Page	
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PHONES	(1)	7	
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Remote sensor	2	5	
SOUND TURBO II	(5)	13	

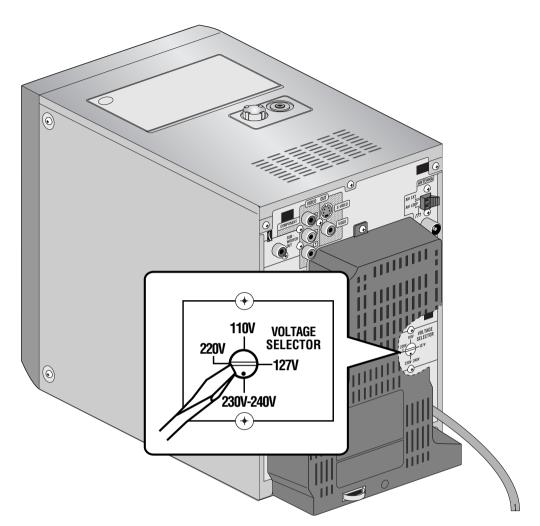
TAPE	(14)	7, 9
UP ▶▶I , DOWN ▶◀◀	(15)(17)	8, 9, 11, 21
USB	18	12
USB AUDIO jack	21)	12
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This remote control can also operate JVC's TVs (see page 43).



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

