

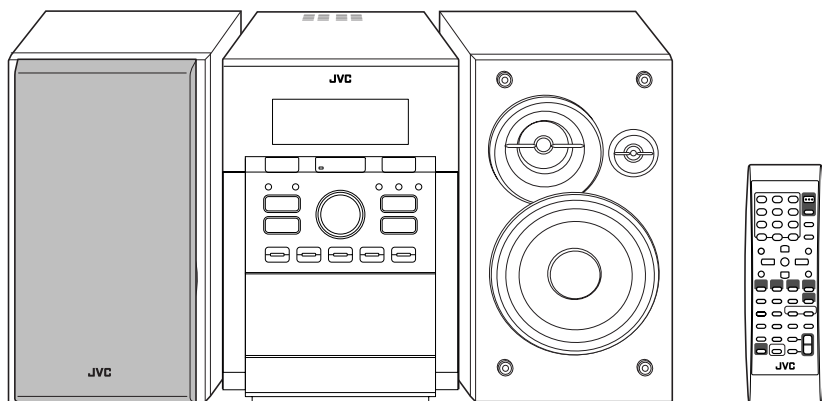
JVC



MICRO COMPONENT SYSTEM

UX-G70

—Consists of CA-UXG70 and SP-UXG70



Digital Direct Progressive Scan **MP3/WMA**
PLAY BACK

INSTRUCTIONS

For Customer Use:

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

Model No. _____

Serial No. _____

Warnings, Cautions and Others Mises en garde, précautions et indications diverses



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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



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

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

CAUTION — ϕ /I (standby) button!

Disconnect the mains plug to shut the power off completely. When installing the apparatus, ensure that the plug is easily accessible. The ϕ /I button in any position does not disconnect the mains line.

- When the unit is on standby, the STANDBY lamp lights in red.
 - When the unit is turned on, the STANDBY lamp goes off.
- The power can be remote controlled.

Attention — Commutateur ϕ /I (attente)!

Déconnecter la fiche de secteur pour couper complètement le courant. Le commutateur ϕ /I ne coupe jamais complètement la ligne de secteur, quelle que soit sa position.

- Quand l'appareil est en mode d'attente, le témoin STANDBY est allumé en rouge.
 - Quand l'appareil est sous tension, le témoin STANDBY s'éteint.
- Le courant peut être télécommandé.

CAUTION

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

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

ATTENTION

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

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

Note to CATV system installer:

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



[European Union only]
[Union européenne seulement]

For U.S.A.

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

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

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

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

CAUTION

Changes or modifications not approved by JVC could void the user's authority to operate the equipment.

ATTENTION

Des changements ou modifications non approuvés par JVC pourront invalider l'autorité de l'utilisateur à opérer cet appareil.

Declaration of Conformity:

Trade Name: JVC

Model Number: UX-G70

Responsible Party: JVC American Corp.

Address: 1700 Valley Road, Wayne New Jersey 07470

Telephone Number: 973-317-5000

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

For Canada/pour le Canada

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

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

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 1 M laser radiation when open. Do not view directly with optical instruments.

IMPORTANT POUR PRODUIT LASER

1. PRODUIT LASER CLASSE 1

2. **ATTENTION:** N'ouvrez pas le couvercle supérieur. Il n'y a aucune pièce réparable par l'utilisateur à l'intérieur de l'appareil; confiez toute réparation à un personnel qualifié.
3. **ATTENTION:** Rayonnement laser visible et/ou invisible de classe 1 M une fois ouvert. Ne pas regarder directement avec des instruments optiques.

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 (41°F and 95°F).
- Leave sufficient distance between the System and the TV.
- Keep the speakers away from the TV to avoid interference with the TV.

Power sources

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



DO NOT handle the AC power cord with wet hands.

Moisture condensation

Moisture may condense 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 PLAY BACK
    
<ul style="list-style-type: none"> • 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),  **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 30.

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).

	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 INFO

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

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

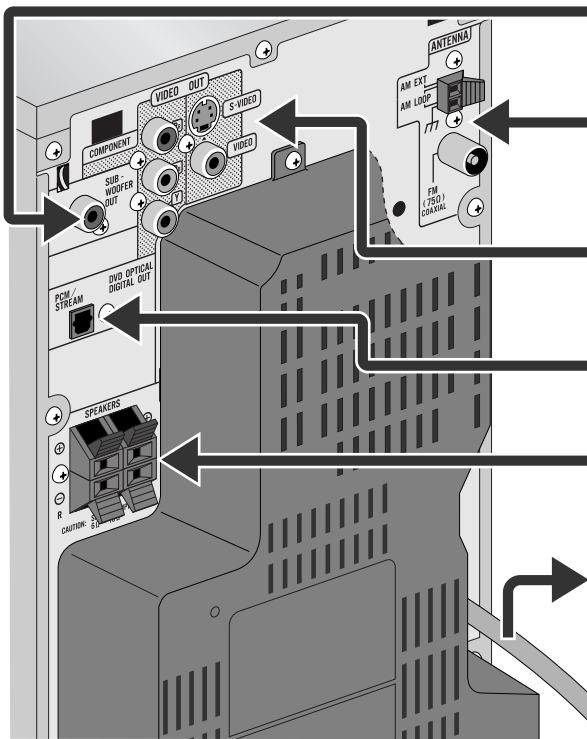
Supplied accessories

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)

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.

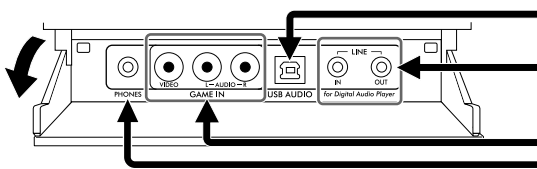
4 From the digital input of digital audio component
See page 5.

5 From the speakers
See page 5.

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

Front panel

Pull down the cover until you hear a clicking sound.



From the PC: See page 11.

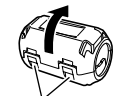
From the portable audio device: See page 5.

From the video game: See page 11.

From the headphones: See page 7.

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

1



Stopper

2

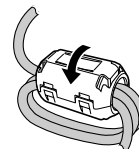
At the front panel



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.

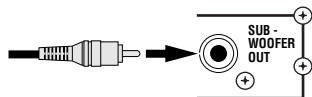
3



Close the core filter until you hear a clicking sound.

1 Powered subwoofer

From the powered subwoofer (not supplied)

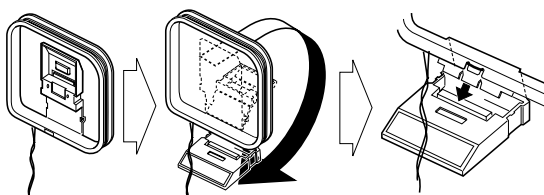


The subwoofer connected can reproduce the bass sounds recorded in front left and right channels, but cannot reproduce the LFE signals in DVD multi-channel discs.

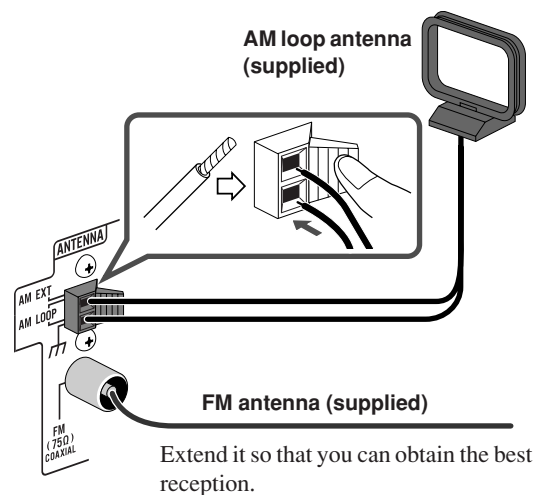
- Before plugging the unit to the main supply, make sure that the powered subwoofer is turned off.

2 AM/FM antenna

To assemble the AM loop antenna



To connect AM/FM antenna

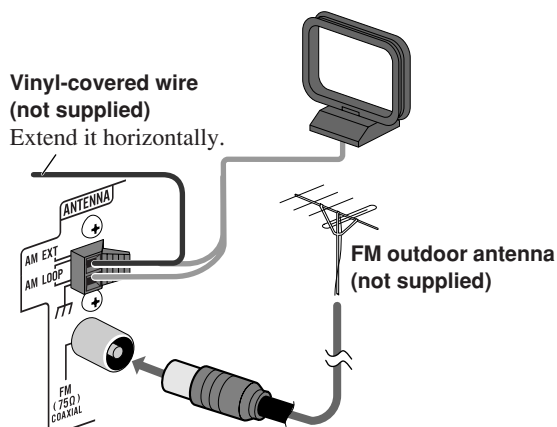


For better AM/FM reception

AM loop antenna (supplied)
Keep it connected.

Vinyl-covered wire (not supplied)

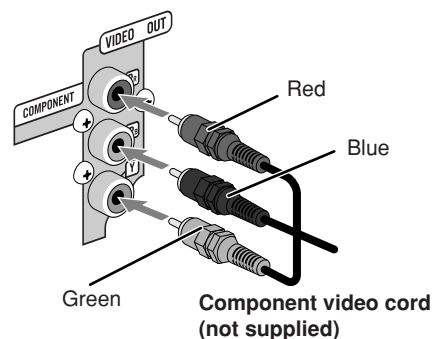
Extend it horizontally.



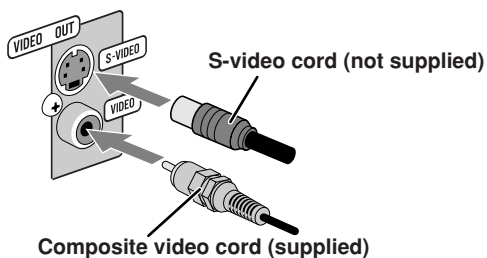
- Disconnect the supplied FM antenna, and connect to an outdoor FM antenna using a 75 Ω wire with coaxial type connector (IEC or DIN45325).

3 TV/monitor

Connect only component cord at one time.

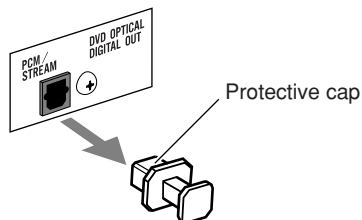


- To select progressive scanning mode (see page 14), use COMPONENT jacks.



- After connecting a TV, select the proper video signal mode according to the connection method. See "Changing the Scanning Mode" on page 14.

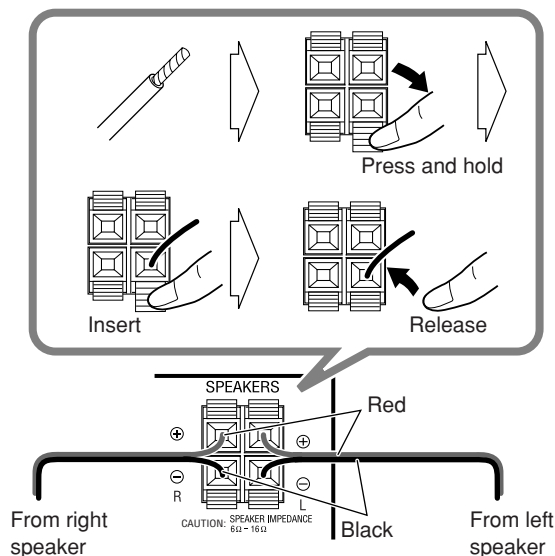
4 Digital audio component



- Set “DIGITAL AUDIO OUTPUT” in the “AUDIO” menu correctly according to the connected digital audio equipment (see page 31). 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.

5 Speakers

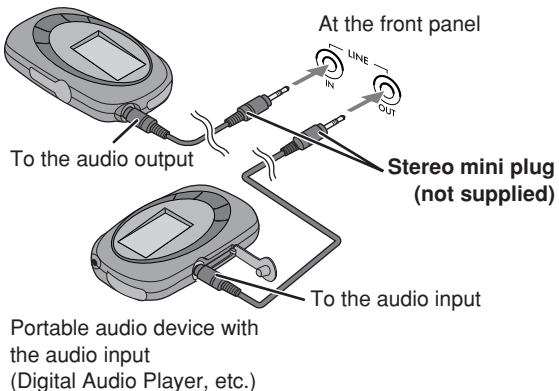
- When connecting the speaker cords, match the polarity of the speaker terminals: red color to (+) and black color to (–).



- 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.

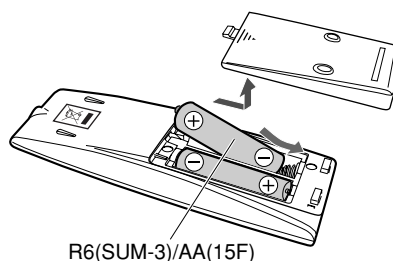
When connecting a portable audio device (LINE)

Portable audio device
(Digital Audio Player, etc.)



- 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 10 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.



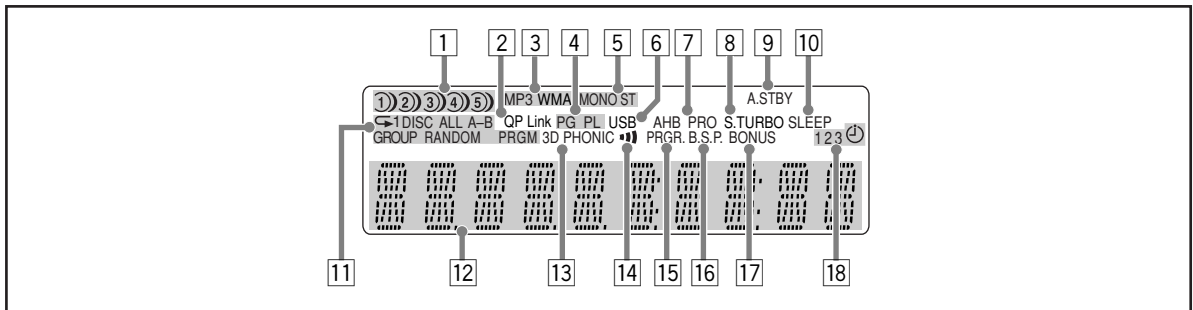
DO NOT recharge, short, disassemble, heat the battery or dispose of it in a fire.

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/16-2/5 inch) 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.
- ○ (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:
– ⏮ 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.

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.

14 (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

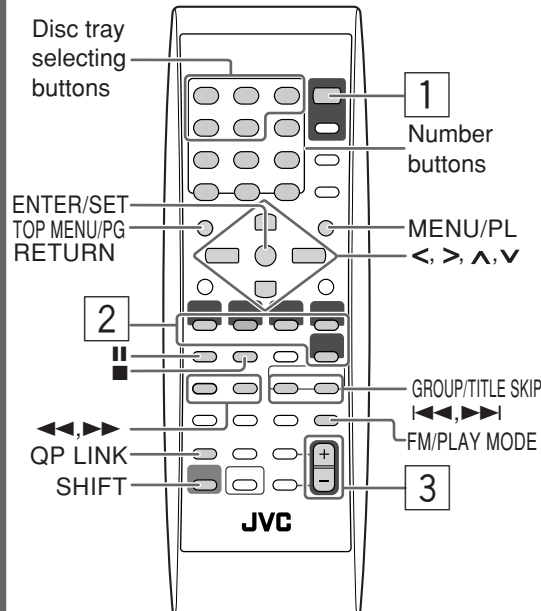
- Lights when a DVD Audio disc with a bonus group is detected.

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.
- ⏰ : lights when Daily Timer is on standby or is being set.

Daily Operations—Playback

Remote control



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 **Q/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 10 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.**

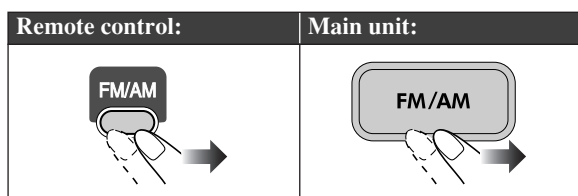
- Disconnecting the headphones will activate the speakers again.



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.

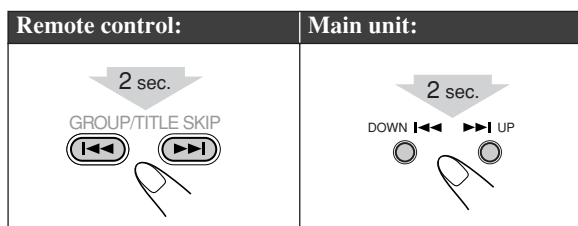
Listening to the Radio INFO

To select the band (FM or AM)



To tune in to a station

While FM or AM is selected...



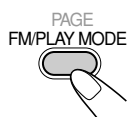
Frequency starts changing on the display.

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 Remote ONLY

You can preset 30 FM and 15 AM stations.

1 Tune in to a station you want to preset.

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

2 Activate the preset number entry mode.



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

3 Select a preset number for the station you store.



Examples:

To select preset number 5, press 5.

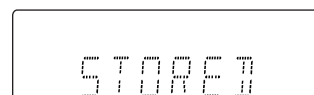
To select preset number 10, press 10.

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

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

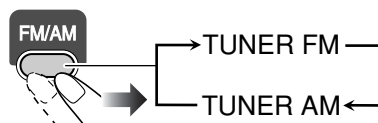
- You can also use the \gg or \ll button.

4 Store the station.



To tune in to a preset station Remote ONLY

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 ≥ 10 , 3, then 0.

- You can also use the \gg or \ll button.

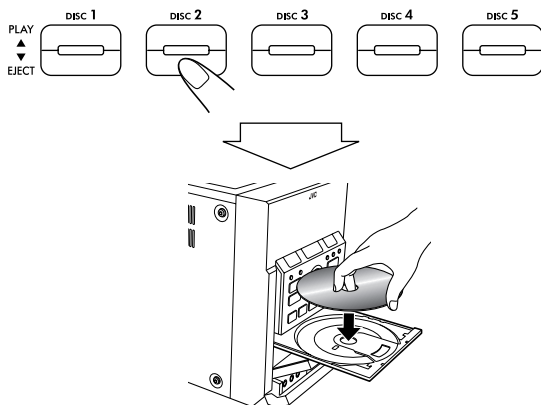
Playing Back a Disc INFO

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 26.

To insert a disc

You can insert a disc while playing another source.



- When using an 8 cm (3-³/₁₆ inch) 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:
	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 31.)

- 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.

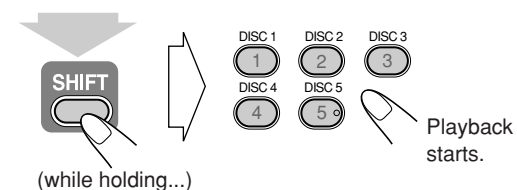
- The following icons will be also shown on the TV to indicate your current operation.



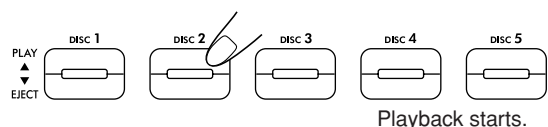
- To deactivate the on-screen guide icons, see “ON SCREEN GUIDE” on page 31.

To select a disc

Remote Control:



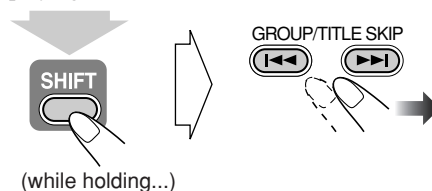
Main Unit:



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



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

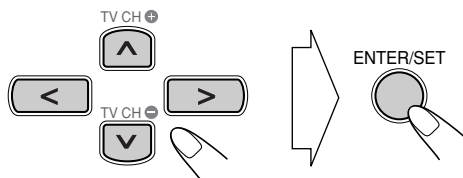


■ For DVD Video/DVD Audio:

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 display.

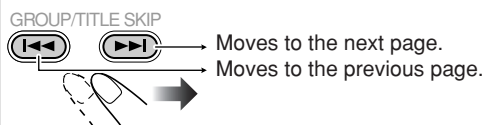
When disc menu appears on the TV, select an item on the menu. Playback of the selected item starts.



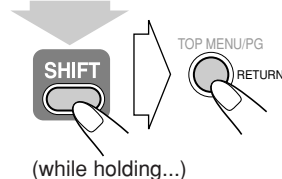
Examples:

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

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



To return to the previous menu:



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 ►.

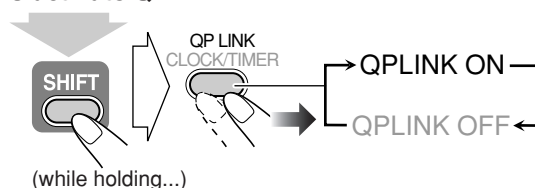
Playing Back a Portable Audio Device



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).

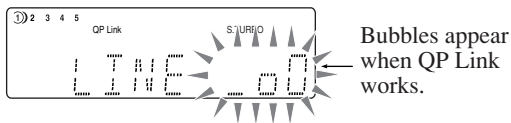
- Make sure to set the volume of your portable audio device loud enough so that the System can detect the sound signal.

To activate QP Link



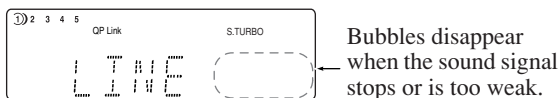
When QP Link is activated, connecting a portable device to the LINE IN jack and starting playback performs the following:

- 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).



Bubbles appear when QP Link works.

While QP Link plays back the device...



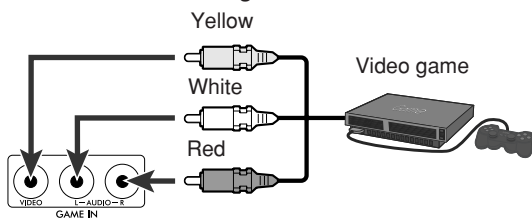
Bubbles disappear when the sound signal stops or is too weak.

Enjoying a video game

By connecting a video game to this System instead of a TV, you can enjoy the image of the game with your TV and the dynamic sound with this System.

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

To connect the video game

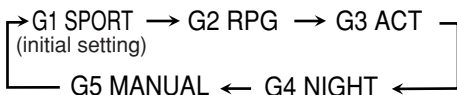


At the front panel

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:



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 12 for how to adjust it.

Playing Back from the PC

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

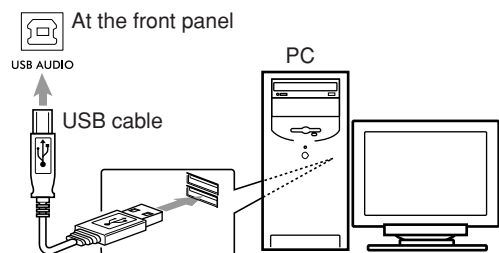
- Always set volume to "VOL MIN" when connecting or disconnecting the other equipment.

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.

Remote control:	Main unit:

- 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

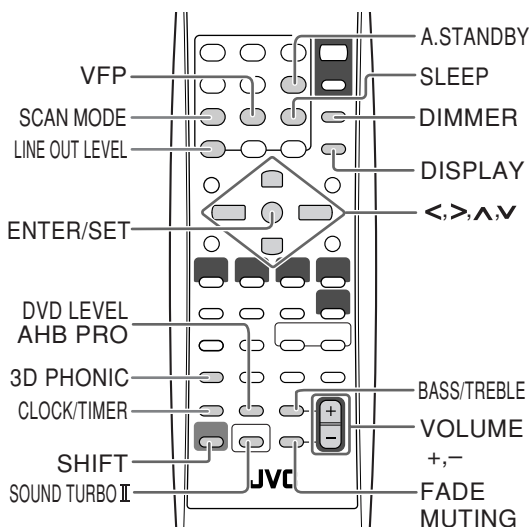
Refer to the manuals supplied with the sound reproduction application installed in the PC.

- 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

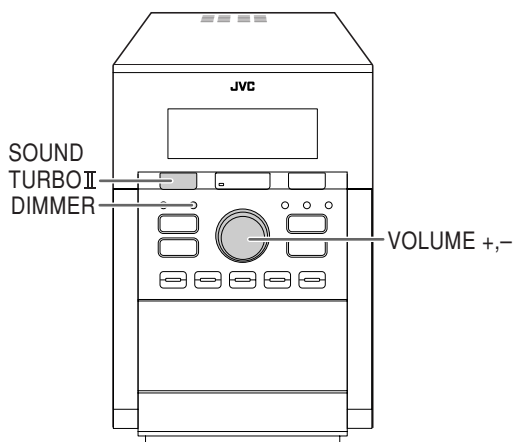
* Microsoft®, Windows® 98, Windows® 98SE, Windows® Me, Windows® 2000 and Windows® XP are registered trademarks of Microsoft corporation.

Daily Operations—Sound & Other Adjustments

Remote control



Main unit



Adjusting the Volume

You can adjust the volume level from VOL MIN to level 40 (VOL MAX).

Remote control:	Main unit:

To drop the volume in a moment

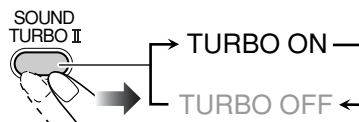


To restore the volume, press again, or adjust the volume level.

Adjusting the Sound

To reinforce the heavy sound

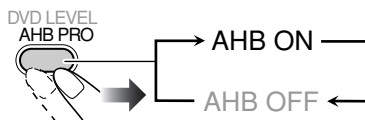
This boosts the low and high frequency sound—Sound Turbo II.



- 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

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

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

To adjust the bass



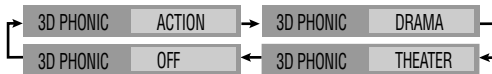
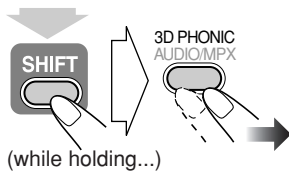
To adjust the treble



Creating 3-dimensional Sound Field

3D Phonic

While playing a disc...



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

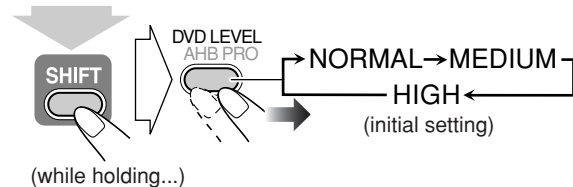
ACTION	Suitable for action movies and sports programs.
DRAMA	Creates natural and warm sound. Enjoy movies in a relaxed mood.
THEATER	Enjoy sound effects like in a major theater.

Presetting Automatic DVD Video Sound

Increase Level

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.

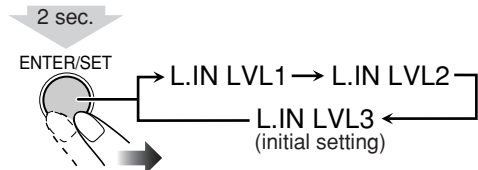
- This only functions for DVD Video.



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

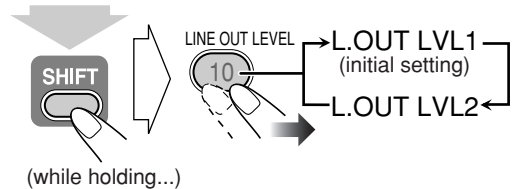
If the sound from the component connected to the LINE IN jack is too loud or is too quiet when changing from another source to LINE, you can change the audio input level through the LINE IN jack (without changing the volume level).



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).

Adjusting the Audio Output Level

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	Select this when recording the sound 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 source.

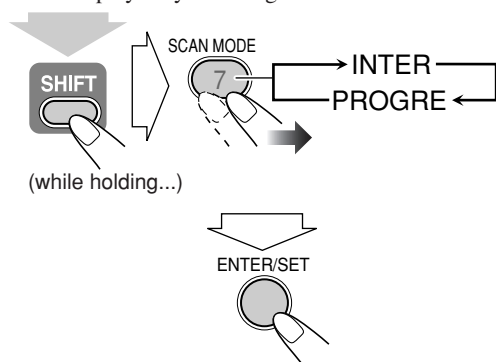
- The display illuminates when playback stops.

* "AUTO DIM" does not work for CD/MP3/WMA.

Changing the Scanning Mode

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 "PROGRE."



INTER Select for a conventional TV.

PROGRE Select for a progressive TV. Select to enjoy a progressive scanned picture through the Video Component out terminal.

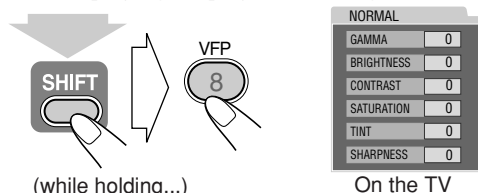
Changing the Picture Tone



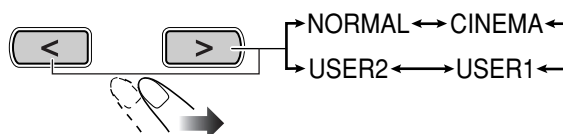
- While showing a playback picture on the TV, you can select a preset picture tone, or adjust it and store your own taste.

To select a preset picture tone

1 While playing, display VFP setting screen.



2 Select a preset picture tone.



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

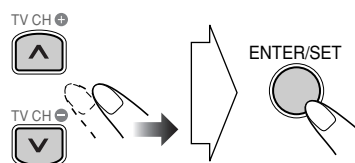
To remove the screen, press VFP again while holding SHIFT, or wait for more than 5 seconds.

To adjust the picture tone

1 Select "USER1" or "USER2."

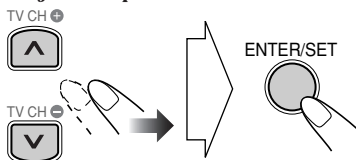
- Follow steps 1 and 2 explained above.

2 Select a parameter you want to adjust.



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

3 Adjust the parameter.



4 Repeat steps 2 to 3 to adjust other parameters.

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

Setting the Clock

Remote ONLY

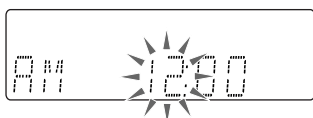
INFO

Without setting the built-in clock, you cannot use Daily Timers (see page 28) 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.

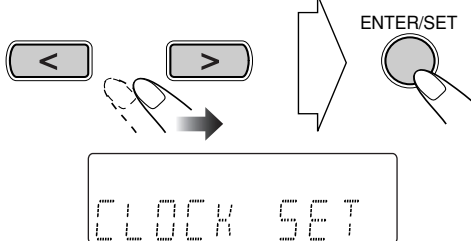
OP LINK
CLOCK/TIMER



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

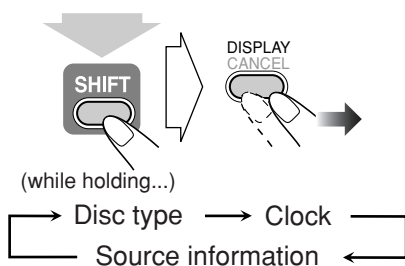
2 Set the time.

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



Now the built-in clock starts working.

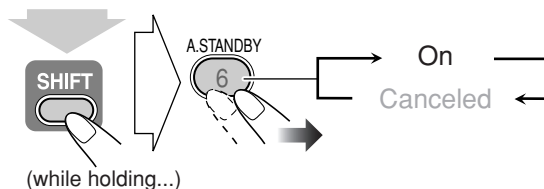
To check the current clock time during play



Turning Off the Power Automatically

Remote ONLY

Auto Standby



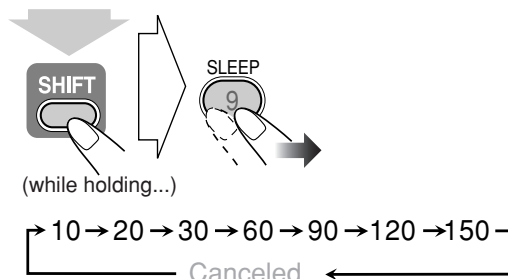
When Auto Standby is in use, the A.STBY indicator lights on the display.

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).



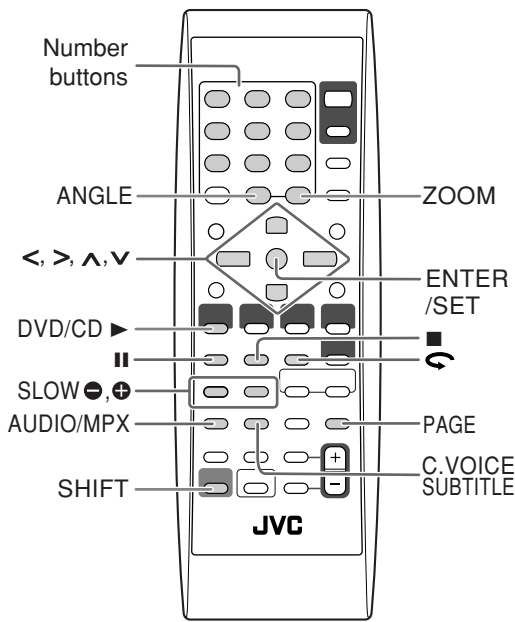
2 Wait until the set time disappears.

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

Remote control



Selecting the Audio Track

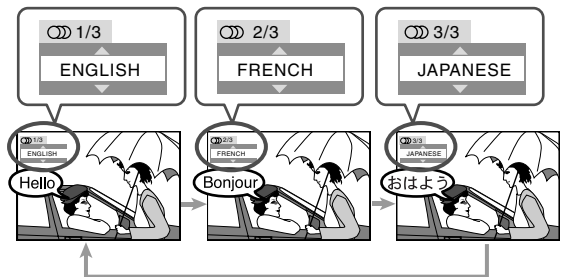


- For DVD Video:** While playing back a chapter containing audio languages, you can select the language to listen to.
- For DVD Audio:** While playing back a track containing audio channels, you can select the audio channel to listen to.
- For DVD-VR and SVCD/VCD:** When playing back a track, you can select the audio channel to play.
- You can also select the audio track using the on-screen bar (see page 22).



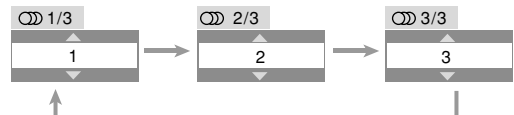
While playing a DVD Video...

Ex.:

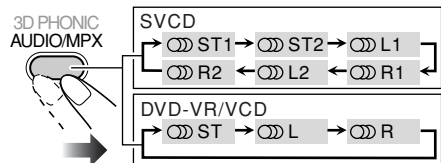


While playing a DVD Audio...

Ex.:



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



ST1/ST2/ST To listen to normal stereo (2-channel) playback.

L1/L2/L To listen to the left audio channel.

R1/R2/R To listen to the right audio channel.

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

Selecting the Subtitle Language

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

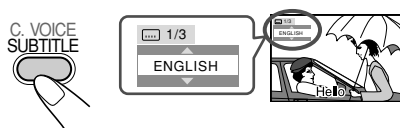
For DVD-VR: While playing, you can turn the subtitles on or off.

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

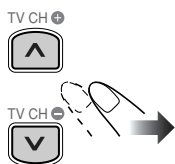
- You can also select the subtitle language using the on-screen bar (see page 22).

While playing a DVD Video...

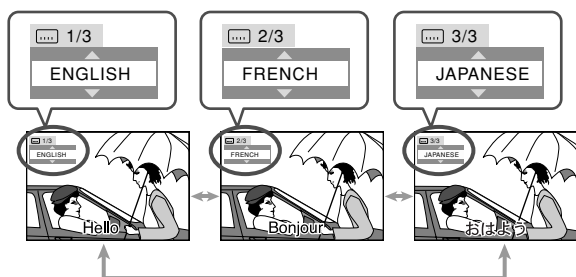
1



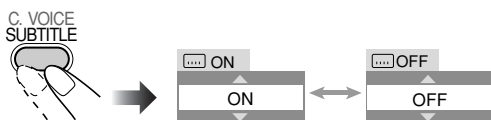
2



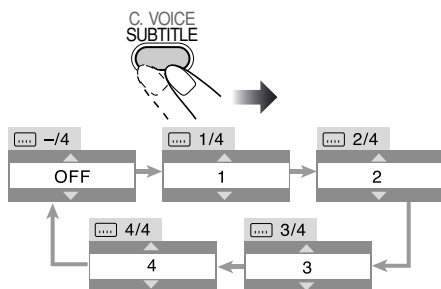
Ex.:



While playing a DVD-VR...



While playing an SVCD...

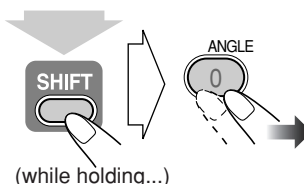


Selecting the View Angle

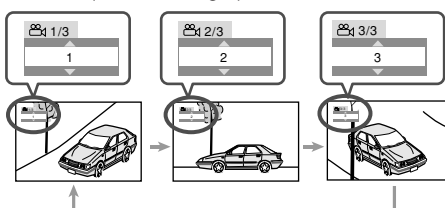
For DVD Video only: While playing back a chapter containing multi-view angles, you can view the same scene from different angles.

- You can also select the multi-view angles using the on-screen bar (see page 22).

While playing...



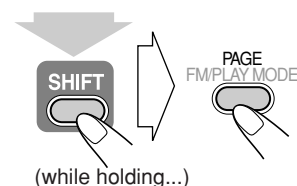
Ex.:



Selecting the Browsable Still Pictures

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

- If a track is linked to browsable still pictures (B.S.P.), they are usually shown automatically during playback.
- You can also select the page using the on-screen bar (see page 22).



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

Playing Back Bonus Group

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

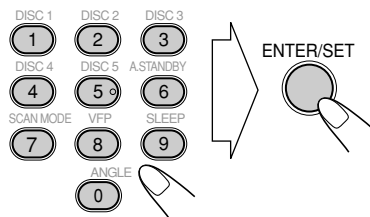
- To playback a bonus group, you have to enter the specific "key number" (a kind of password) for the bonus group. The way of getting the key number depends on the disc.

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 9.

Continued on the next page

2 Enter the key number.



3 Follow the interactive instructions shown on the screen.

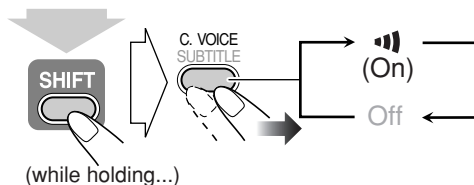
To cancel the key number entry, press ■.

Making Dialogues Clear—Clear Voice



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



Pause playback

To pause:	To resume normal playback:
While playing... 	

Frame-by-frame playback

1 While playing...



Still picture playback starts.

2 Advance the still picture frame by frame.



To resume normal playback, press DVD/CD ►.

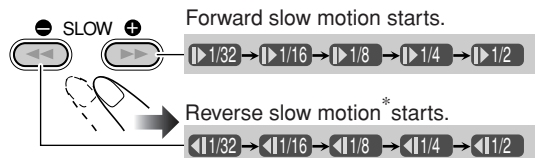
Slow-motion playback

1 While playing...



Still picture playback starts.

2 Select slow motion speed.



*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...

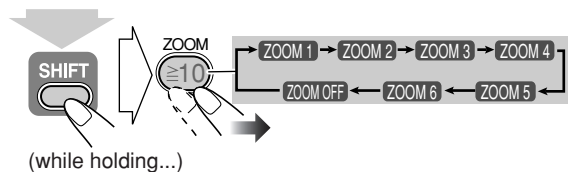


The playback position moves back about 10 seconds before the current position (only within the same title).

Zoom

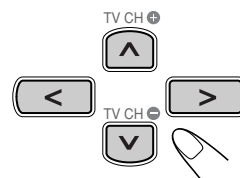
- For JPEG, see page 27.

1 While playing back...



- As the number increases, magnification also increases.

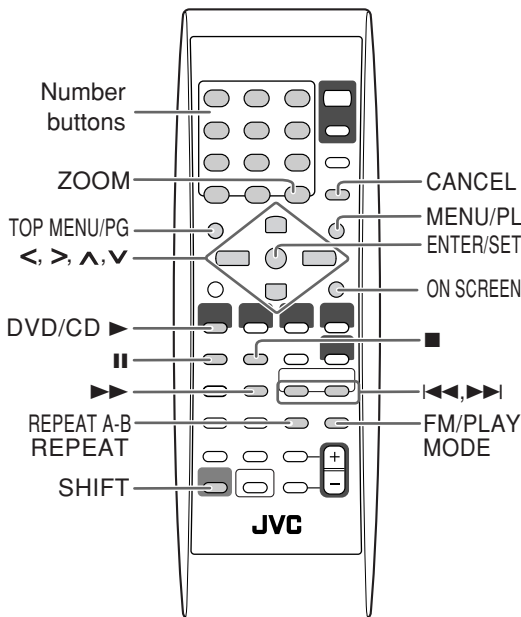
2 Move the zoomed-in position.



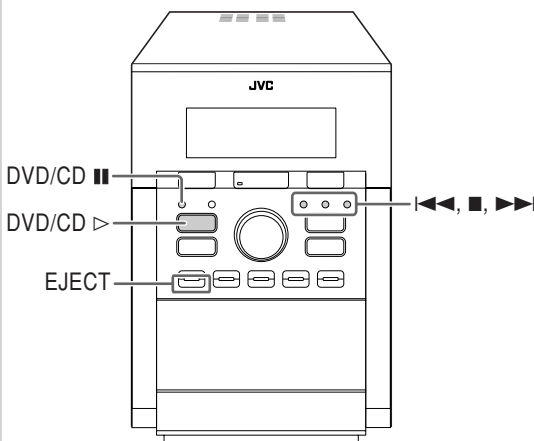
To cancel Zoom, press ZOOM (while holding SHIFT) repeatedly until "ZOOM OFF" appears on the TV.

Advanced Disc Operations

Remote control



Main unit



Programming the Playing Order—

Program Play

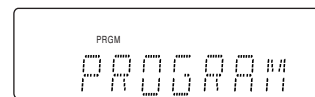
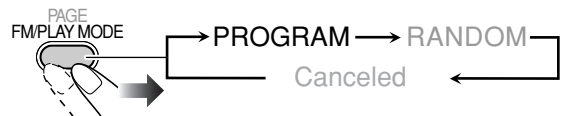
Remote ONLY

INFO

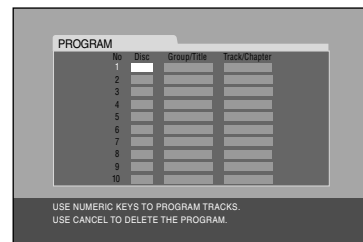
You can arrange the playing order of the chapters or tracks (up to 99) before you start playback.

- 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 display



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.

To enter the numbers directly:



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 10.

Continued on the next page

3 Start playback.



Playback starts in the order you have programmed.

To skip a step:	To pause:	To stop:
<p>GROUP/TITLE SKIP</p>	<p>To release, press DVD/CD ►.</p>	

To check the programmed contents

Before or after playback...

TV CH



→ In the reverse order.



→ In the programmed order.

- You can also use ◀◀ or ▶▶ 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:
<p>DISPLAY CANCEL</p>		<p>Repeat step 2.</p>

To exit from Program Play

Before or after playback...



PROGRAM → RANDOM
Canceled

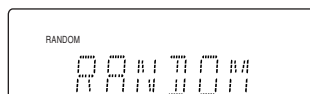
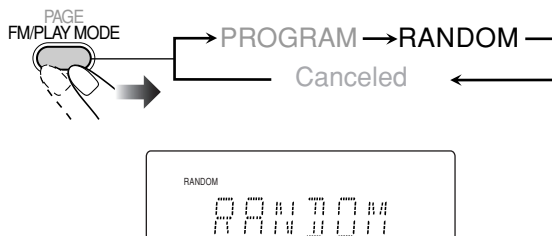
Playing at Random—Random Play



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.

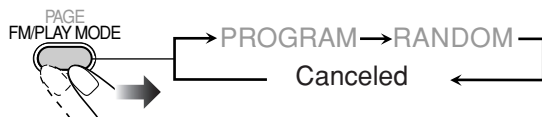


Playback starts in random order.
Random Play ends when the entire disc has been played.

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

To exit from Random Play

Before or after playback...



Playing Repeatedly



INFO

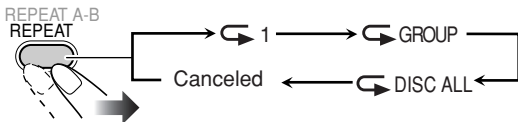
- You can also select the repeat mode using the on-screen bar (see pages 23 and 24).
- For MP3/WMA/JPEG, see page 27.

Repeat Play

You can repeat playback.

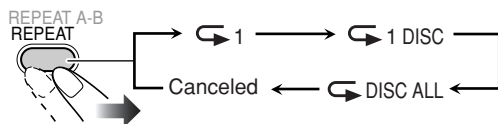
• For DVD Video/Audio:

While playing...



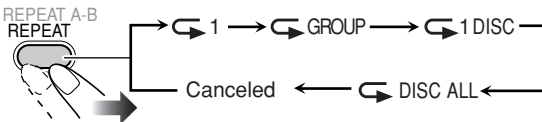
• For CD/SVCD/VCD:

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

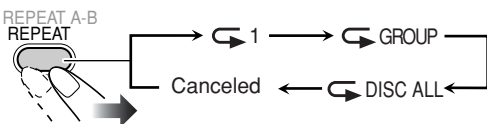


• For DVD-VR:

While playing an original program...



While playing a playlist...



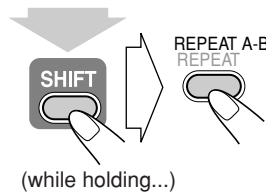
↶, 1	Repeats the current chapter/track.
↶, GROUP	Repeats the current title (for DVD Video)/group (for DVD Audio)/title of PG or PL (for DVD-VR).
↶, 1, DISC	Repeats the current disc.
↶, DISC, ALL	Repeats all discs.

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.

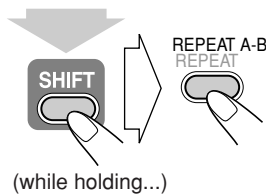
1 While playing (without PBC for SVCD/VCD), select the start point (A).



↶A- appears on the display.

- ↶A- appears on the TV if the TV is turned on.

2 Select the end point (B).



↶A-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.

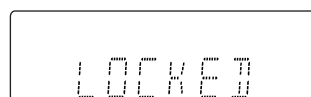
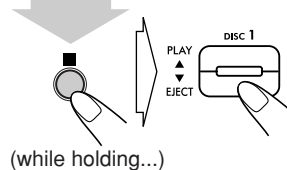
Prohibiting Disc Ejection—Child Lock



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



INFO

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

On-screen bars

DVD Video

1 2 3

DVD-VIDEO Dolby D 3/2.1ch DISC 1 TITLE 2 CHAP 3 TIME 0:00:58

TIME OFF CHAP. 1/3 1/3 1/1

4

DVD Audio

1 2 3

DVD-AUDIO LPCM 2/0.0ch DISC 1 GROUP 14 TRACK 23 TIME 0:00:58

TIME OFF TRACK 1/3 PAGE 1/3

4

DVD-VR

1 2 3

DVD-VR Dolby D 2/0.0ch DISC 1 PG 2 CHAP 3 TOTAL 0:00:58

TIME OFF CHAP. ST ON

4

SVCD

1 2 3

SVCD DISC 1 TRACK 3 TIME 0:00:58

TIME OFF ST 1/4

4

VCD

1 2 3

VCD DISC 1 TRACK 3 TIME 0:00:58

TIME OFF ST

4

CD

1 2 3

CD DISC 1 TRACK 3 TIME 0:00:58

TIME OFF

4

MP3/WMA/JPEG

1 2 3

FILE TIME 00:00:58

On-screen Bar Information

1 Disc type

2 Playback information

Indication

Meanings

Dolby D, LPCM	Audio format
3/2.1ch, 2/0.0 ch	Channel number
DISC 1	Current disc
TITLE 2	Current title
CHAP 3	Current chapter
GROUP 1	Current group
PG 2	Current title of original program
PL 2	Current title of playlist
TRACK 14	Current track
TOTAL 1:25:58	Time indications

3 Operation modes

Indication

Meanings

▶	Playback
⏮ / ⏭	Forward/Reverse search
⏮ / ⏭	Forward/Reverse slow-motion
⏸	Pause
■	Stop

4 Function icons (on the pull-down menu)

Indication

Meanings

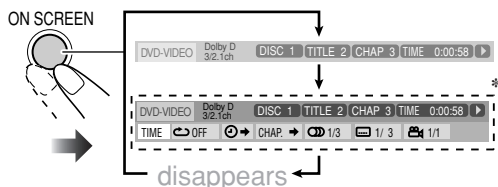
TIME	Select to change the time indication.
⏮ OFF	Select to repeat playback.
⏮	Select for time search.
CHAP. ▶	Select for chapter search.
TRACK ▶	Select for track search.
1/3	Select to change the audio language or channel (see also page 16).
1/3	Select to change subtitle language (see also page 17).
1/3	Select to change the view angle (see also page 17).
PAGE 1/5	Select to change the page (see also page 17).

To operate using the On-screen Bar

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

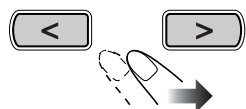
While a disc is selected as the source...

1 Display the entire on-screen bar.



* This does not appear for MP3/WMA/JPEG discs.

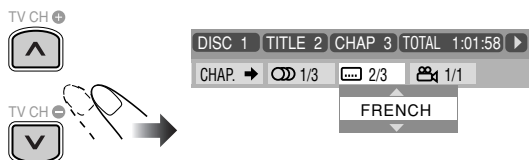
2 Select (highlight) the item you want.



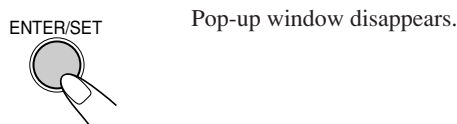
3 Display the pop-up window.



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

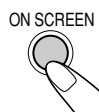


5 Finish the setting.



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

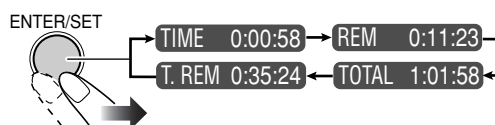
You can change the time information in the on-screen bar and the display window on the main unit.

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 21.

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 **OFF**.

3 Display the pop-up window.



Continued on the next page

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 21).
PL	Repeats the current title of playlist (for DVD-VR only) (see also page 21).
OFF	Cancels Repeat Play.

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

5 Finish the setting.

ENTER/SET



A-B Repeat

• See also page 21.

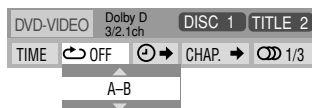
1 While playing, display the entire on-screen bar.

2 Select OFF.

3 Display the pop-up window.



4 Select "A-B."



5 Select the start point (A).

ENTER/SET



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

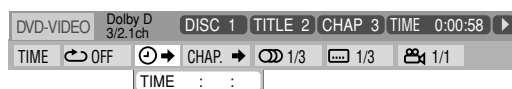
You can move to a particular point by specifying the elapsed playing time from the beginning.

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.

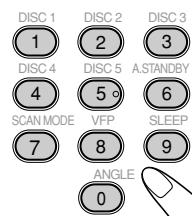
2 Select .

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.

ENTER/SET



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 or .

3 Display the pop-up window.



4 Enter the desired chapter/track number.



Examples:

To select chapter/track 5, press 5.

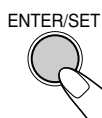
To select chapter/track 10, press 1, then 0.

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 17.

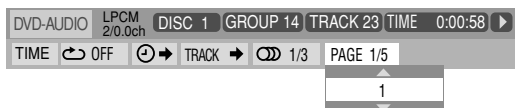
For DVD Audio only: While playing back a track linked to browsable still pictures (B.S.P.), you can select the still picture (turn the page) to be shown on the TV.

- If a track is linked to browsable still pictures (B.S.P.), they are usually shown automatically during playback.

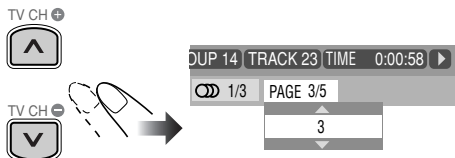
1 While playing a DVD Audio, display the entire on-screen bar.

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:
To remove the list, press the same button again.	

Ex.: When Program List is selected.

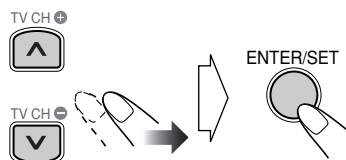
ORIGINAL PROGRAM					
No	Date	Ch	Time	Title	
1	03/12/06	L	12:15	La fleur	
2	09/12/06	L	23:05	The last struggle	
3	18/12/06	L	08:17	free flyer	
4	20/12/06	L	07:47	BOOM!	
5	25/12/06	L	19:38	Mr. Lawrence	
6	28/12/06	L	14:20	Satisfy U	

Ex.: When playlist is selected.

PLAY LIST					
No	Date	Chap	Length	Title	
1	03/12/06	002	0:23:24	Nebula G.	
2	15/12/06	004	1:04:39	CDJ	
3	24/12/06	013	0:41:26	Secret Garden	
4	27/12/06	017	0:09:08	S. Walker	

- 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



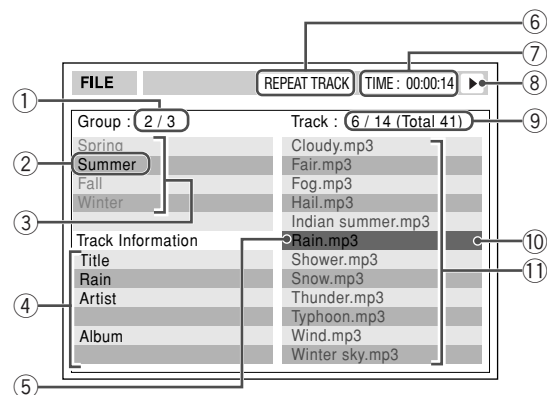
Operations on the Control Screen

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.

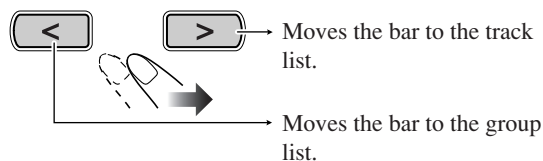
Ex.: When the MP3 disc is loaded.



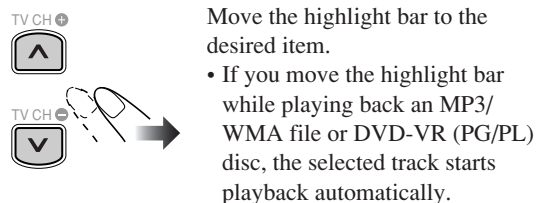
- ① Current group number/total group number
- ② Current group
- ③ Group list
- ④ Track information (ID3 Tag Version 1.0: only for MP3/WMA)
- ⑤ Current track
- ⑥ Repeat Play setting
- ⑦ Elapsed playing time of the current track (except for JPEG)
- ⑧ Operation mode icon
- ⑨ Current track number/total number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

- If files of different types (MP3, WMA and JPEG) are recorded on a disc, select the file type to play (see page 30).

To move the highlight bar between group list and track list



To select an item in the list



To start playback

For JPEG:

ENTER/SET



The selected track (still picture) is displayed until you change it.



Slide-show playback starts. Each track (still picture) is shown on the screen for about 3 seconds, then changes one after another.

For the other files:

ENTER/SET

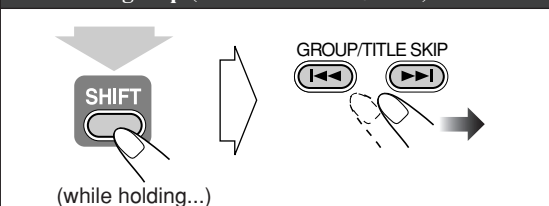


Playback starts with the selected track.

- 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.

To select a group (for MP3/WMA/JPEG):



To skip a track:



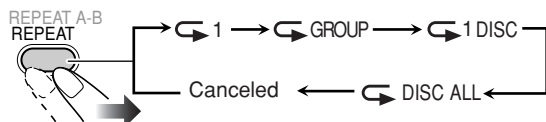
To stop playback:



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

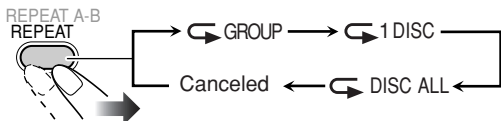
To repeat MP3/WMA playback

While playing or before playback...



To repeat slide-show for JPEG

While playing or before playback...

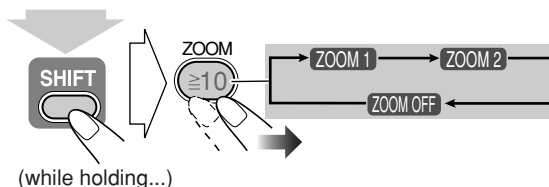


To zoom in the JPEG files

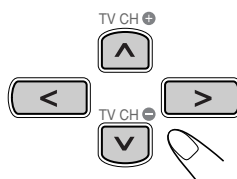
- You cannot zoom in the still picture during slide-show.
- For other discs, see page 18.

1 While playing back a still picture...

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



2 Move the zoomed-in position.

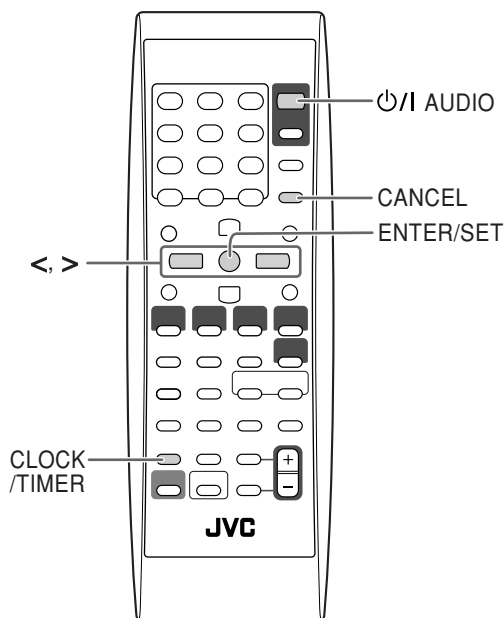


To cancel Zoom, press ZOOM (while holding SHIFT) repeatedly until "ZOOM OFF" appears on the TV.

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

Timer Operations

Remote control



Setting the Timer

Remote ONLY

INFO

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

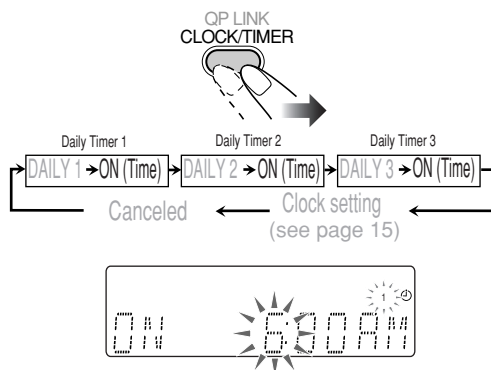
You can store three Daily Timer settings; however, you can activate only one of the timers at the same time.

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

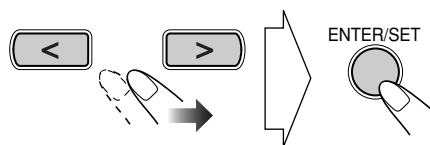


Ex. When Daily Timer 1 setting mode is selected

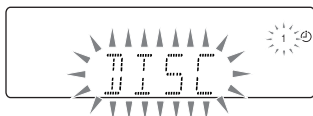
- When the clock has not been set, pressing **CLOCK/TIMER** makes the System enter the clock setting mode.

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

Repeat the procedure for the following settings until finished:



- 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 on-time.



How Daily Timer works

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

When the on-time comes

The System turns on, tunes in to the specified station or 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 (⌚) 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.

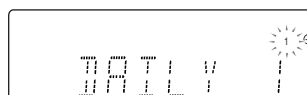
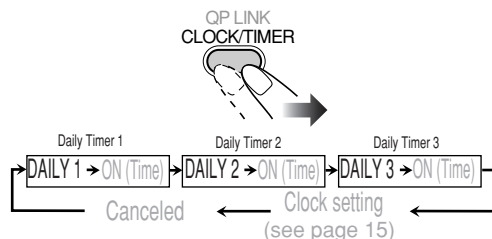
- The timer setting remains in memory until you change it.

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.



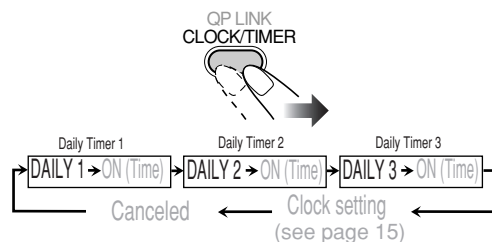
Ex. To cancel Daily Timer 1

- 2 Turn off the selected Timer.



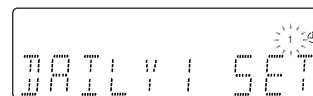
To turn on the Timer

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



- 2 Activate the selected Timer.

ENTER/SET

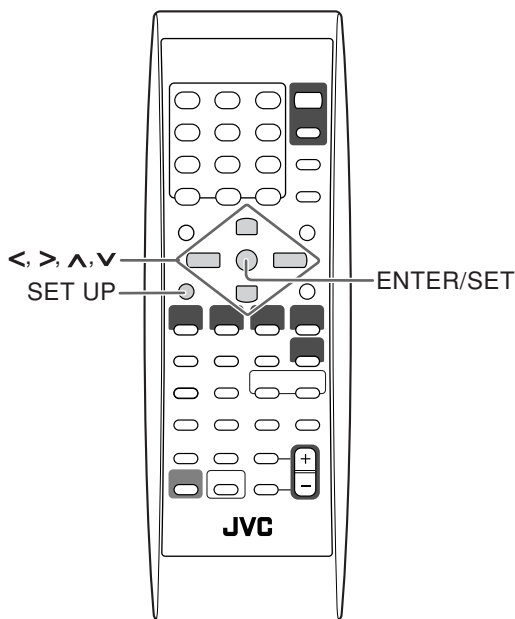


Ex. When Daily Timer 1 (DAILY 1) is activated

- 3 Wait until the indication disappears.

Setup Menu Operations INFO

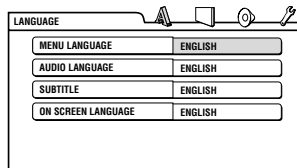
Remote Control



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 ^ (or v) to select the item.

4 Press ENTER/SET.

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

- For settings of the LANGUAGE menu, see also “Language Code List” on page 36.

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 	<p>You can select the monitor type to match your TV when you playback DVD Video discs recorded for wide-screen televisions.</p> <p>16:9 (Wide television screen): For a wide-screen (16:9) TV.</p> <p>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.</p> <p>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.</p>
PICTURE SOURCE	<p>You can obtain optimal picture quality by selecting the source type of the disc contents.</p> <p>AUTO: Normally, select this option. The System recognizes the picture type (film or video source) of the current disc according to the disc information.</p> <p>FILM: For a film source disc.</p> <p>VIDEO: For a video source disc.</p>
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	<p>You can select the file type to play.</p> <p>AUDIO: To play MP3/WMA files.</p> <p>STILL PICTURE: To play JPEG files.</p>



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 speakers.
Then wait at least 30 minutes before turning on the TV's main power switch again.
 - Some TVs may still be affected even though you have followed the above 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 11)

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 Level 2.
 - 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 /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 12 to 15)

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:

- “AM 12:00” will flash on the display until you set the clock.
- The clock may gain or lose 1 to 2 minutes per month. If this happens, reset the clock.

Unique DVD/VCD Operations (see pages 16 to 18)

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 19 to 27)

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.

To operate using the On-screen Bar:

- 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 28 and 29)

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 30 and 31)

General:

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

LANGUAGE menu:

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

PICTURE menu—MONITOR TYPE:

- Even if “4:3 PS” is selected, the screen size may become 4:3 letter box 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.

Maintenance

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.

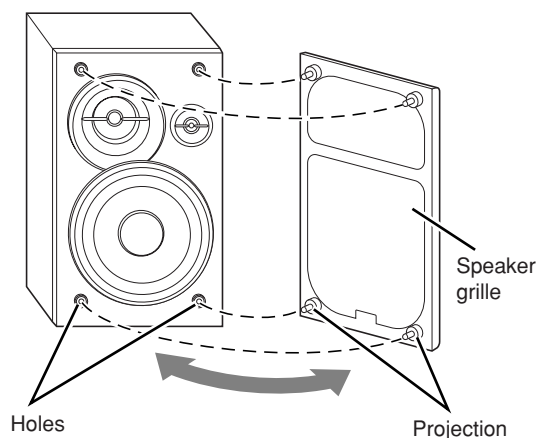
To clean the disc:

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

To remove the speaker grilles:



Troubleshooting

General:

Adjustments or settings are suddenly canceled before you finish.

⇒ There is a time limit. Repeat procedure again.

Operations are disabled.

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

Unable to operate the System from the remote control.

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

⇒ The batteries are exhausted.

No sound is heard.

⇒ Speaker connections are incorrect or loose.

⇒ Headphones are connected.

No picture appears on the screen.

⇒ The video cord connections are incorrect or loose.

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

⇒ The System is connected to a TV which does not support progressive video input.

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

⇒ Select “4:3 LB” for “MONITOR TYPE” (see page 30).

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 30).

⇒ 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 17).

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 16).

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 21).

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.

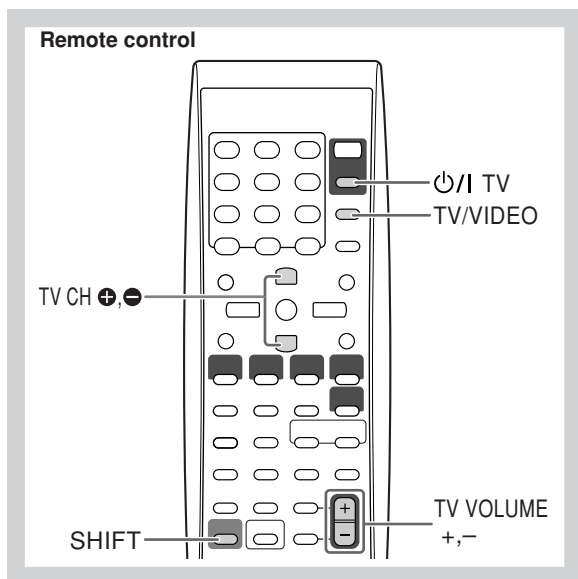
Language Code List

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

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

* 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.



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

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.

Specifications

Amplifier section—CA-UXG70

Output Power: 120 W per channel, min. RMS, driven into 6 Ω at 1kHz with no more than 10% total harmonic distortion.

Audio Input	LINE IN:
	500 mV/49 k Ω (at “L.IN LVL1”)
	250 mV/49 k Ω (at “L.IN LVL2”)
Audio Output	125 mV/49 k Ω (at “L.IN LVL3”)
	GAME IN:
	500 mV/49 k Ω
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 k Ω
Digital output:	HEADPHONES OUT: 17 mW/32 Ω
	DVD OPTICAL DIGITAL OUT:
USB input:	–21 dBm to –15 dBm (660 nm \pm 30 nm)
	USB AUDIO
Video output:	
	Color system: NTSC (interlaced/progressive)
S-VIDEO: Y (luminance)	VIDEO (composite): 1 V(p-p)/75 Ω
	1 V(p-p)/75 Ω
COMPONENT: (Y)	C (chrominance, burst) 0.286 V(p-p)/75 Ω
	1 V(p-p)/75 Ω
Speaker impedance:	(PB/Pr) 0.7 V(p-p)/75 Ω
	6 Ω – 16 Ω
Headphone impedance:	16 Ω – 1 k Ω

Tuner section

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

Disc player section

Playable disc:	DVD Video/DVD Audio/CD/VCD/SVCD
	CD-R/CD-RW (CD/SVCD/VCD/MP3/
	WMA/JPEG format)
	DVD-R/-RW (DVD-VR/DVD Video/MP3/
	WMA/JPEG format)
Dynamic range:	+R/+RW (DVD Video format)
	80 dB
Horizontal resolution:	DVD-ROM (DVD Video format)
Wow and flutter:	500 lines
	Immeasurable

General

Power requirement:	AC 120 V \sim , 60 Hz
Power consumption:	90 W (at operation)
	14 W (at standby)
Dimensions (approx.):	1.0 W (at standby display OFF mode)
	175 mm x 250 mm x 411 mm
	(6- ⁹ / ₁₀ inch x 9- ⁷ / ₈ inch x 16- ¹ / ₅ inch)
	(W/H/D)
Mass (approx.):	7.6 kg (16.8 lbs)

Speakers—SP-UXG70

Speaker units:	Tweeter:	1.5 cm (⁵ / ₈ inch) dome x 1
	Squawker	4 cm (1- ⁵ / ₈ inch) cone x 1
	Woofers:	13.5 cm (5- ³ / ₈ inch) cone x 1
Impedance:		6 Ω
Dimensions (approx.):		166 mm x 250 mm x 232 mm
		(6- ⁹ / ₁₆ inch x 9- ⁷ / ₈ inch x 9- ³ / ₁₆ inch)
		(W/H/D)
Mass (approx.):		2.8 kg (6.2 lbs) 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

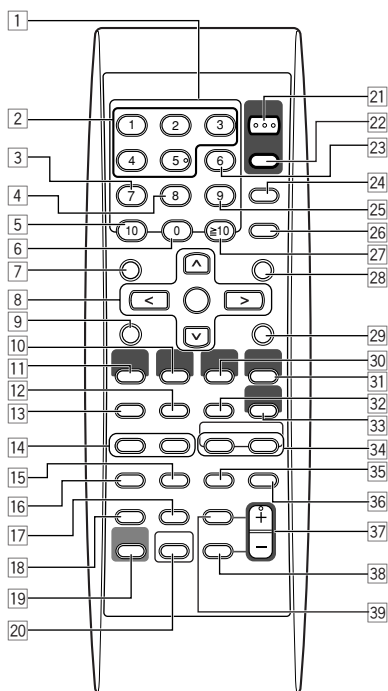
Remote control

Button	Page
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■	12 9, 10, 18, 20, 27
▶▶, ◀◀	14 8, 10
▶▶I, I◀◀	34 8, 10, 20, 27
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Main unit

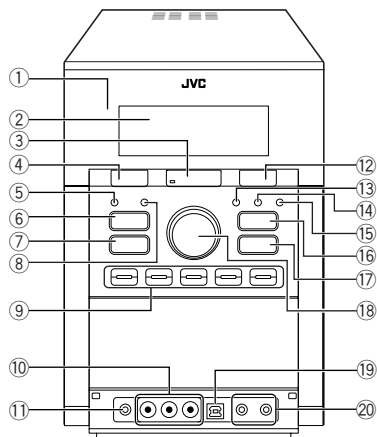
Button	Page
⏻/I & STANDBY lamp	(3) 7
■	(14) 9, 21
DIMMER	(8) 14
DISC 1 - 5, PLAY, EJECT	(9) 9, 21
Display	(2) 6
DVD/CD ▶	(6) 7, 9, 26
DVD/CD ■	(5) 9, 26
FM/AM	(7) 8
GAME	(12) 7, 11
GAME IN jacks	(10) 11
LINE	(17) 7
LINE IN/OUT jacks	(20) 5
PHONES	(11) 7
Remote sensor	(1) 5
SOUND TURBO II	(4) 12
UP ▶▶, DOWN ◀◀	(15/13) 8, 9, 20
USB	(16) 11
USB AUDIO jack	(19) 11
VOLUME +, -	(18) 12

Remote control



This remote control can also operate JVC's TVs (see page 37).

Main unit



TO OUR VALUED CUSTOMER ———

THANK YOU FOR PURCHASING THIS JVC PRODUCT.
WE WANT TO HELP YOU ACHIEVE A PERFECT EXPERIENCE.

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Remember to retain your Bill of Sale for Warranty Service.

————— **Do not attempt to service the product yourself** —————

Caution

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



LIMITED WARRANTY

AUDIO-1 **USA ONLY**

ONLY FOR PRODUCT PURCHASED IN U.S.A.

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

PARTS	1 YR	LABOR	1 YR
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THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN THE COMMONWEALTH OF PUERTO RICO.

WHAT WE WILL DO:

If this product is found to be defective within the warranty period, JVC will repair or replace defective parts with new or rebuilt equivalents at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products may be brought to a JVC authorized service center on a carry-in basis. Color televisions with a screen size of 27" or greater qualify for in-home service. In such cases, a technician will come to your home and either repair the TV there or remove and return it if it cannot be repaired in your home.

WHAT YOU MUST DO FOR WARRANTY SERVICE:

Please do not return your product to the retailer

Instead, return your product to the JVC authorized service center nearest you. If shipping the product to the service center, please be sure to package it carefully, preferably in the original packaging, and include a brief description of the problem(s). Please call 1-800-252-5722 to locate the nearest JVC authorized service center. Service locations can also be obtained from our website <http://www.jvc.com>. If your product qualifies for in-home service, the service representative will require clear access to the product.

If you have any questions concerning your JVC Product, please contact our Customer Relations Department at 800-252-5722

WHAT IS NOT COVERED:

This limited warranty provided by JVC does not cover:

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

There are no express warranties except as listed above.

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

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

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

JVC COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.

1700 Valley Road
Wayne, NJ 07470

<http://www.jvc.com>

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

For customer use:

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

Model No. :

Serial No. :

Purchase date :

Name of dealer :

JVC

