



COMPACT COMPONENT SYSTEM

EX-D1 Consists of CA-EXD1 and SP-EXD1





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.

CAUTION

- To reduce the risk of electrical shocks, fire, etc.:
- 1. Do not remove screws, covers or cabinet.
- 2. Do not expose this appliance to rain or moisture.

CAUTION — STANDBY/ON 也/| button!

Disconnect the mains plug to shut the power off completely (the STANDBY lamp goes off). The STANDBY/ON 小/ button in any position does not disconnect the mains line.

- When the system is on standby, the STANDBY lamp lights red.
- When the system is turned on, the STANDBY lamp lights green.

The power can be remote controlled.

IMPORTANT FOR LASER PRODUCTS

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

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





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.

FOR U.S.A.

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

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

Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for

help.

For Canada/pour le Canada

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

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

For Canada/pour le Canada

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

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

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.

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How to read this manual

- · Operations are described by mainly using the remote control buttons. If there are the same marks on the main unit, the buttons on the main unit can also be used.
- ٠ The following marks tell you for which type of the discs the operation can be made.

VIDEO AUDIO VCD SVCD C D WMA JPEG

- The illustrations and TV screens may be different between the actual case and the description.
- "VCD" is an abbreviation of "Video CD". "SVCD" is an abbreviation of "Super Video CD".

Notes on handling

Important cautions

Installation of the system

- Select a place which is level, dry and neither too hot nor too cold; between 5°C and 35°C (between 41°F and 95°F)
- Leave sufficient distance between the system and the τv
- Do not use the system in a place subject to vibration.

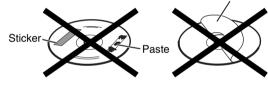
Power cord

- Do not handle the power cord with wet hands.
- A small amount of power is always consumed while the power cord is connected to the wall outlet.
- When unplugging the power cord from the wall outlet, always pull on the plug, not the power cord.

To prevent malfunctions of the system

- There are no user-serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the system.
- Do not use any non-standard shape disc (like a heart, flower or credit card, etc.) available on the market, because it may damage the system.
- Do not use a disc with tape, stickers, or paste on it, because it may damage the system.

Label sticker



Note about copyright laws

Check the copyright laws in your country before recording from DVDs, VCDs, SVCDs, and CDs. Recording of copyrighted material may infringe copyright laws.

Note about copy guard system

DVDs are protected by copy guard system. When you connect the system to your VCR directly, the copy guard system activates and the picture may not be played back correctly.

Safety precautions

Avoid moisture, water and dust

Do not place the system in moist or dusty places.

Avoid high temperatures

Do not expose the system to direct sunlight and do not place it near a heating device.

When you are away

When away on travel or for other reasons for an extended period of time, disconnect the power cord plug from the . wall outlet.

Do not block the vents

Blocking the vents may damage the system.

Care of the cabinet

When cleaning the system, use a soft cloth and follow the relevant instructions on the use of chemically-coated cloths. Do not use benzene, thinner or other organic solvents including disinfectants. These may cause deformation or discoloring.

If water gets inside the system

Turn the system off and disconnect the power cord plug from the wall outlet, then call the store where you made your purchase. Using the system in this condition may cause fire or electrical shock.

When condensation or water drops adhere to the lens

In any of the following cases, condensation or water drops may adhere to the lens to prevent the system from working properly:

- Immediately after starting to heat the room
- When the system is installed in a steamy or damp space
- When the system is suddenly moved from a cold place to a warm space

In any of these cases, leave the system turned on for 1 or 2 hours before use.

Supplied accessories

Check to be sure you have all of the supplied accessories.

The number in parentheses is the quantity of the pieces supplied. If anything is missing, contact your dealer immediately.

- Remote control (1) ٠
- Batteries (2)
- FM antenna (1)
- AM loop antenna (1)
- Power cord (1)
- Composite video cord (1)
- Speaker cords (2)
- Core filter (1)

- 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 method claims of certain U.S. patents
- and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Playable disc types

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

DVD VIDEO, DVD AUDIO, VCD, SVCD, CD

- This system can also play back the following discs:
 Finalized DVD-R/-RW discs recorded in the DVD VIDEO format.
- CD-R/RW discs recorded in the following formats
- Music CDs (finalized discs)
- VCDs
- SVCDs
- MP3/WMA/JPEG discs recorded in ISO 9660 (for details, refer to "Notes on CD-R and CD-RW")

However, some discs may not be played back because of their disc characteristics, recording conditions, or damage or stain on them.

Only sounds can be played back from the following discs:

•	
MIX-MODE CD	CD-G
CD-EXTRA	CD TEXT

Discs you can play:

Disc Type	Mark (Logo)	Video Format
DVD VIDEO		NTSC
DVD AUDIO		—
VCD		NTSC
SVCD		NTSC
CD		—
CD-R		
CD-RW	DIGITAL AUDIO ReWritable	—

is a trademark of DVD Format/Logo Licensing Corporation.

* Note on Region Code

DVD players and DVD VIDEOs have their own Region Code numbers. This system can only play back a DVD VIDEO recorded with the Region Code number and video format mentioned below.

For your available Region Code, check the rear panel of your main unit.

This system can play back only DVD VIDEOs whose Region Code numbers include "1".

Examples:



If a DVD VIDEO with an improper Region Code number is loaded, "REGION CODE ERROR!" appears on the TV screen and playback cannot start.

 On some DVD VIDEOs, DVD AUDIOs, VCDs or SVCDs, their actual operation may be different from what is explained in this manual. This is due to the disc programming and disc structure, not a malfunction of this system.

Notes on DVD-R and DVD-RW

 This system can also play finalized DVD-Rs or DVD-RWs recorded in DVD-Video format.

Notes on CD-R and CD-RW

- This system can also play CD-Rs or CD-RWs if MP3, WMA, and JPEG files are recorded on them with ISO 9660 format.
- This system supports "multi-session" discs (up to 20 sessions).
- This system cannot play "packet write" (UDF format) discs. Some discs may not be played back because of their disc characteristics, recording conditions, or damage or stain on them.

Discs that cannot be played back

 The following discs cannot be played back: DVD-ROM, DVD-RAM, DVD-R/-RW (recorded in VR format), CD-ROM, CD-I (CD-I Ready), Photo CD, SACD, etc.

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

Damaged discs and discs in an extraordinary shape (other than a disc of 12 cm or 8 cm (5 inches or 3 inches) in diameter) cannot be played back.

Caution for DualDisc playback

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

Notes on all files

- The system can only recognize and play files with one of the following extensions, which can be in any MP3: ".MP3", ".mp3"
 WMA: ".WMA", ".wma"
 JPEG: ".JPG", ".JPEG", ".jpg", ".jpg"
- If a character other than single byte English characters is used in the file name of an MP3/WMA/JPEG file, the track/file name will not be displayed correctly.
- The system recognizes up to 150 tracks (files) per group, 99 groups per disc, and the total number of the tracks (files) that the system can play is 1 000.
- Some files may not be played back normally because of their disc characteristics or recording conditions.

For MP3/WMA files

- An off-the-shelf MP3 disc may be played in an order different from that indicated on the label attached to the disc.
- The system supports MP3/WMA files recorded with a bit rate of 32 - 320 kbps and a sampling frequency of 16 kHz, 22.05 kHz, 24 kHz (WMA only), 32 kHz, 44.1 kHz, or 48 kHz.
- If the tag information (album name, artist, and track title, etc.) is recorded on a disc, it appears in the file control display on the TV screen.
- We recommend to record each piece of material (song) at a sample rate of 44.1 kHz and at a data transfer rate of 128 (96 for WMA only) kbps.
- This system cannot play back files encoded with Multiple Bit Rate (MBR). (MBR is a format to encode a file content at several different bit rates.)

For JPEG files

- We recommend to record a file at 640 x 480 resolution.
- This system can play a baseline JPEG file, excluding monochromatic JPEG files.
- This system can play JPEG data taken with a digital camera conforming to the DCF (Design Rule for Camera File System) standard (when a function is applied such as the automatic rotation function of a digital camera, data goes beyond the DCF standard, so the image may not be displayed).
- If data has been processed, edited and restored with PC image editing software, the data may not be displayed.
- This system cannot play animations such as MOTION JPEG, or still images (TIFF etc.) other than JPEG, and image data with sound.
- An image with a resolution of more than 8 192 x 7 680 pixels cannot be displayed.

Disc structure

DVD VIDEO

A DVD VIDEO consists of "titles" and each title may be divided into "chapters".

Title 1			Title 2	
Chapter 1	Chapter 2	Chapter 3	Chapter 1	Chapter 2

DVD AUDIO

A DVD AUDIO consists of "groups" and each group may be divided into "tracks".

Some discs include a "bonus group" that requires a password for playing (page 27).

•	Group 1		Gro	up 2
Track 1	Track 2	Track 3	Track 1	Track 2

VCD/SVCD/CD

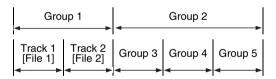
VCD, SVCD and CD consist of "tracks". In general, each track has its own track number. (On some discs, each track may also be further divided by indexes.)

Track 1	Track 2	Track 3	Track 4	Track 5
<>	← →	← →	← →	← ►

MP3/WMA [JPEG] discs

On an MP3/WMA [JPEG] disc, each still picture (material) is recorded as a track [file]. Tracks [Files] are usually grouped into a folder. Folders can also include other folders, creating hierarchical folder lavers.

This unit simplifies the hierarchical construction of a disc and manages folders by "groups".

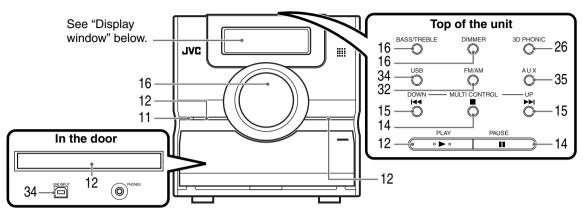


This product can recognize up to 1 000 tracks [files] in a disc. Also, the product can recognize up to 150 tracks [files] per group and up to 99 groups in a disc. Since the unit ignores the tracks [files] whose numbers are exceeding 150 and the groups whose numbers are exceeding 99, they cannot be played back.

 If there is any type of files other than MP3/WMA [JPEG] files in a folder, those files are also counted in the total file number.

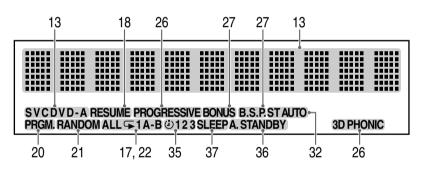
The numbers represent the page numbers.

Front panel

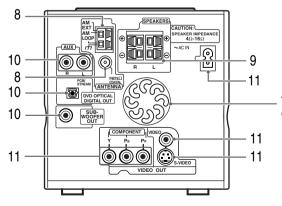


* Connect headphones (not supplied) with a stereo mini plug. If the headphones are connected, the speakers and subwoofer will not produce any sound.

Display window

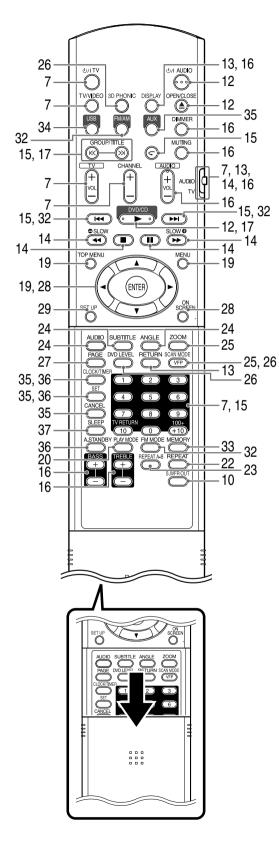


Rear panel



These holes discharge heat generated inside the unit. Do not cover up these holes.

The numbers represent the page numbers.



Putting the batteries in the remote control

If the range or effectiveness of the remote control decreases, replace the batteries. Use two R6 (SUM-3)/AA(15F) type dry-cell batteries.

CAUTION

- Do not use a used battery and a new battery together.
- Do not use different types of batteries at the same time.
- Take out the batteries if the remote control is not to be used for a long time. Otherwise it may cause a leakage.

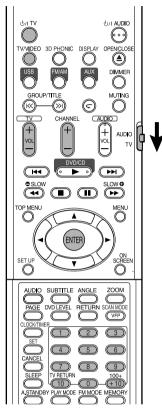
Remote control operation

When operating the remote control, point it towards the front panel of the main unit. If the remote control is operated from a direction that is extremely oblique or when there is an obstacle in the way, signals may not be transmitted.

If the remote control sensor is exposed to a strong light such as direct sunlight, correct operation may not be carried out.

This page is for when operating your TV using the remote control of this product.

Operating the TV using the remote control



Setting the manufacturer's code

1 Slide the remote control mode selector to the TV side.



2 Keep pressing down U/I TV.

NOTE

Keep pressing down ⊍/I TV until Step 4 is complete.

3 Press ENTER.

4 Press number buttons (1-9, 0).

Ex.:

For a Hitachi TV: Press 1, then 0. For a Toshiba TV: Press 0, then 8.

If there are more than one manufacturer's codes, try them in turn and select the one that causes the product to work properly.

Manufacturer	Code	Manufacturer	Code
JVC	01	Samsung	12
Hitachi	10	Sanyo	13
Magnavox	02	Sharp	06
Mitsubishi	03	Sony	07
Panasonic	04, 11	Toshiba	08
RCA	05	Zenith	09

NOTE

Manufacturer's codes may be changed without notice. You may not be able to operate a TV produced by the manufacturer shown above.

5 Release ⊍/ITV.

For TV operation

Operate the remote control by pointing it towards the TV.

UTING	Turn ON/OFF the power.	
CHANNEL +	Change channels.	
	Adjust volume.	
$\begin{array}{c} 1 \sim 9 / \\ 0 / + 1 \end{array}$	AUDIO TV . Select channels	
TV RETURN	Alternates between the previously selected channel and the current channel.	
TV/VIDEO	Switch TV and video input.	

*1 Make sure to slide the remote control mode selector to the TV side in advance.

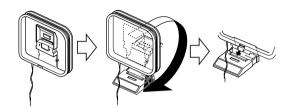
NOTE

When the batteries are replaced, perform the manufacturer's code setting again.

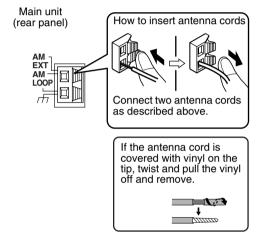
Connecting antennas

Connecting AM loop antenna (supplied)

1 Set up the AM loop antenna.



2 Connect antenna cords.



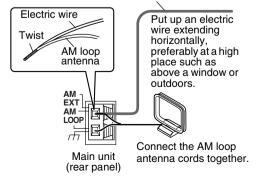
3 Turn the AM loop antenna to the direction of the best radio reception.

Locate the AM loop antenna as far away from the main unit as possible.

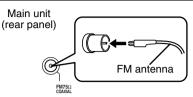
• Do not locate the AM loop antenna on a metallic table or close to a TV, personal computer, etc. Otherwise it may result in bad radio reception.

When good radio reception cannot be obtained with the supplied AM loop antenna

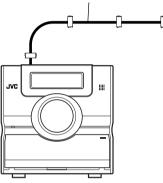
Electric wire: 3 - 5 m (9 feet 10 inches - 16 feet 5 inches) (commercially available)



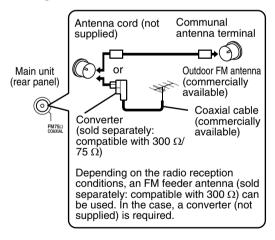
Connecting FM antenna (supplied)



Put the antenna up straight in the direction where the best radio reception can be obtained, and fix by using tape.



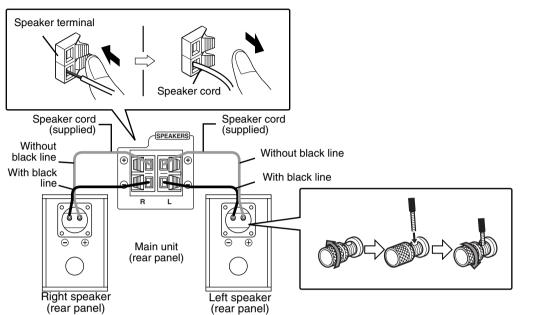
When good radio reception cannot be obtained with the supplied antenna or when using a communal antenna



For details of connecting a separately sold antenna, refer to the user guide for the antenna or converter.

Connecting speakers

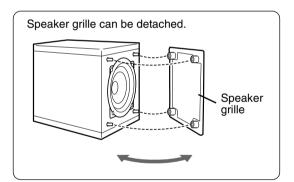
There is no difference between the left and right speakers.



CAUTION

- DO NOT connect more than one speaker to one speaker terminal.
- The speakers of this product are magnetically shielded, but color irregularities may occur on the TV depending on how the speakers are installed. Keep in mind the following.
 - 1. Turn off the main power of your TV before installing the speakers. Wait for about 30 minutes before turning on the TV again.
 - If color irregularity occurs in pictures, keep a distance of more than 10 cm (3¹⁵/₁₆ inches) between the TV and the speakers.

The speakers employ natural wood for the diaphragm and the cabinet in order to reproduce the original sound faithfully. The appearance will therefore be different for each unit.



- Impedance of speaker that can be connected to the main unit is within a range of 4 Ω to 16 Ω.
- In order to have a sufficient cooling effect, leave a space of more than 1 cm (³/₈ inches) between the main unit and the speakers or other objects.

Connecting other devices

This page is for when connecting the main unit with other devices.

White

Main unit

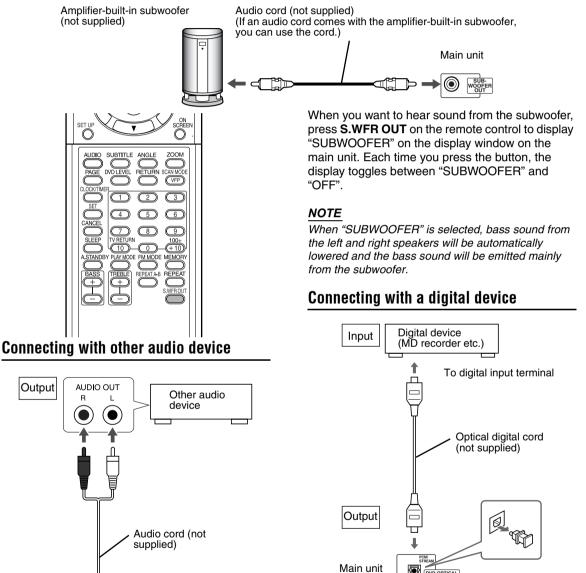
Red

Input

AUX

Connecting subwoofer

With an amplifier-built-in subwoofer (not supplied), you can enjoy a more dynamic bass sound. Refer to the manual of the subwoofer for details.



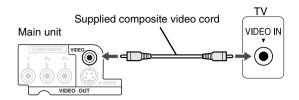
CAUTION

• For details of signals to be output, refer to page 30.

DVD OPTICAL DIGITAL OUT

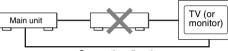
 If connecting the main unit with equipment with the function of a Dolby Digital decoder, the setting in "D. RANGE COMPRESSION" of "AUDIO" (page 30) will be invalid regarding sound from the digital audio output of the main unit.

Connecting with TV



CAUTION

Connect the main unit directly with a TV (or a monitor) without routing through a VCR. Otherwise it may cause picture distortion while playing.

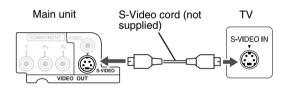


Connecting directly

Also, when connecting the main unit to a TV with a VCR built in, there may be picture distortion while playing.

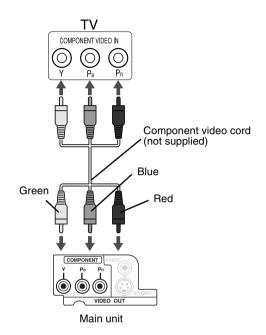
You can enjoy pictures of better quality using the following cord instead of the supplied video cord.

Connecting by using the S-Video cord



Connecting by using the component video cord

You can enjoy better quality pictures than when using the S-Video cord.



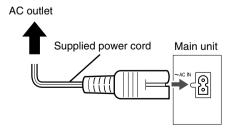
CAUTION

Use one of either the S-Video cord or the component video cord. If both cords are used, pictures may not be played properly.

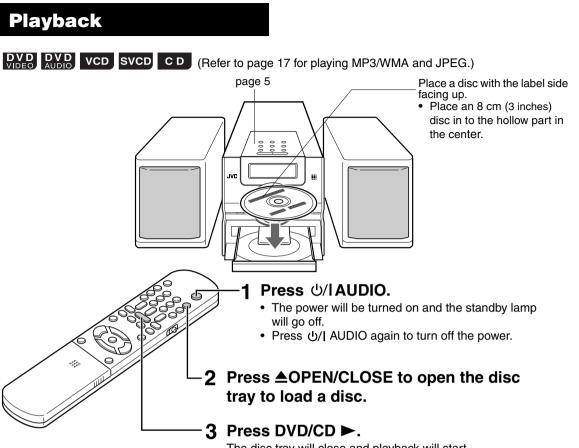
NOTE

- In order to enjoy pictures with Progressive mode (page 26), the TV is required to have Progressive video input.
- If the component video input jacks of your TV are BNC type, use a plug adapter (not supplied) to convert the plugs.

Connecting the power cord



- Connect the power cord after all other connections are complete.
- The standby lamp (on the front panel) will be lit.



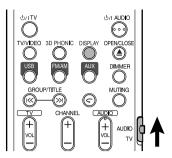
The disc tray will close and playback will start.

• The power will be turned on when any of PLAY ▶, USB, FM/AM, AUX, or ▲ on the main unit and DVD/CD ▶, USB, FM/AM, AUX, or ▲OPEN/ CLOSE on the remote control is pressed while the power is off.

If any button other than ▲ or ▲OPEN/CLOSE is pressed, the source will also be changed (if there is a disc loaded, playback will start).

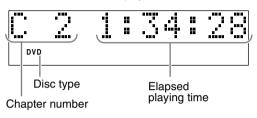
- A menu screen may be displayed on the TV after starting playback of a DVD/VCD/SVCD. In this case, select a desired item to playback by using the following buttons on the remote control.
 - Select a desired item using cursor ▲/▼/</>
 A/▼/ press ENTER.
 - Select a desired item using the number buttons.
- Depending on the disc. actual operation may be different from the description.

JVC	creens displayed on the TV when the power is turned ON.
	e following messages appear depending on the status of the system. nen FM, AM, USB or AUX is selected as a source, the messages do not appear.)
NOW READING	Appears when the system is reading the disc information. Wait for a while.
REGION CODE ERROR!	Appears when the Region Code of the DVD VIDEO does not match the code the system supports. (page 3)
NO DISC	Appears when no disc is loaded.
OPEN	Appears when opening the disc tray.
CLOSE	Appears when closing the disc tray.
CANNOT PLAY THIS DISC	Appears when trying to play back an unplayable disc.



Display window during disc playback

Ex.: When a DVD VIDEO is played



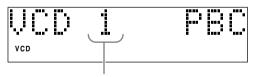
Ex.: When a DVD AUDIO is played



Track number

If "BONUS" or "B.S.P." is displayed during a DVD AUDIO playback, refer to page 27.

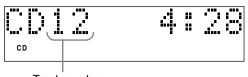
Ex.: When an SVCD or VCD is played



Track number

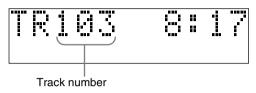
- When playing an SVCD, the SVCD indicator lights instead of the VCD indicator.
- PBC (Play Back Control): A signal recorded in a VCD (version 2.0) for controlling playback. It is possible to enjoy interactive software or software with a search function using a menu screen recorded in a PBC compatible VCD. To play a disc with the PBC function OFF, carry out the following operations.
 - Designate the track number using the number buttons while the disc is stopped.
 - Designate the track number using ►►I while the disc is stopped, and then press DVD/CD ►.
- Press **RETURN** to go back to the upper layer during the PBC playback of a VCD or SVCD.

Ex.: When a CD is played



Track number

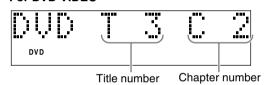
Ex.: When an MP3/WMA file is played



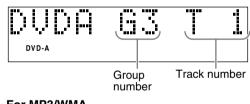
To switch the display

Press DISPLAY.

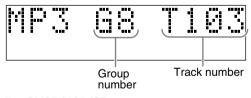
Each time you press the button, the display indication changes temporarily as follows: • For DVD VIDEO



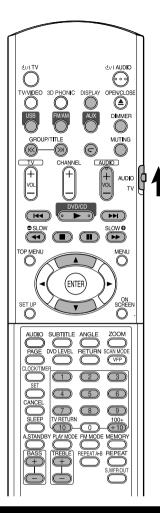
• For DVD AUDIO



For MP3/WMA



- For SVCD/VCD/CD The clock time indication appears on the display window.
 - Before setting the clock (page 35), "AM 12:00" appears.
- When the unit is turned off, pressing **DISPLAY** turns off the clock indication to save the power consumption.



Select what you want to play by using the number buttons

DVD DVD VCD SVCD C D MP3 JPEG

NOTE

- Set the remote control mode selector to AUDIO before using the number buttons.
- For a VCD or SVCD, this operation can be carried out when the disc is stopped, or during playback without the PBC function.
- For a DVD AUDIO, CD, MP3/WMA or JPEG, this operation can also be carried out when the disc is stopped.
- This operation may not be carried out for some discs.

Designate the chapter number or track number to play during playback.

• Refer to "How to use the number buttons" on page 15.

To stop playback

DVD DVD VCD SVCD C D MP3 WMA JPEG

Press ■ during playback.

To pause playback

DVD DVD VCD SVCD C D MP3 JPEG

Press II during playback.

To start normal playback again, press DVD/CD ►.

• For JPEG slide-show, pressing DVD/CD ► starts playback from the next file.

To advance picture frame-by-frame

DVD VIDEO SVCD VCD

Press II during pause.

• Each time you press the button, picture will be advanced frame-by-frame.

Fast reverse/Fast forward search

DVD DVD VCD SVCD CD

Press $\triangleleft \triangleleft$ or $\blacktriangleright \triangleright$ during playback.

 Each time you press the button, the speed increases (×2, ×5, ×10, ×20, ×60). To restore the normal speed, press DVD/CD ►.

- Fast reverse/Fast forward search cannot be carried out for MP3, WMA, and JPEG.
- For a DVD VIDEO, VCD or SVCD, no sound comes out during Fast reverse/Fast forward search.
- For a CD or DVD AUDIO, sound is intermittent during Fast reverse/Fast forward search.

Playing back from a position 10 seconds before (One Touch Replay)

DVD VIDEO

Press <- during playback.

NOTE

- This operation may not be carried out for some discs.
- It is not possible to go back to the previous title.

Slow Motion Playback

VIDEO VCD SVCD

- Each time you press the button, the playback speed increases (×1/32, ×1/16, ×1/8, ×1/4, ×1/2).
- Press DVD/CD ► to start normal playback again.

NOTE

- No sound will be produced.
- The picture motion in the reverse direction may not be smooth.
- For a VCD or SVCD, Slow Motion Playback can be carried out in the forward direction only.

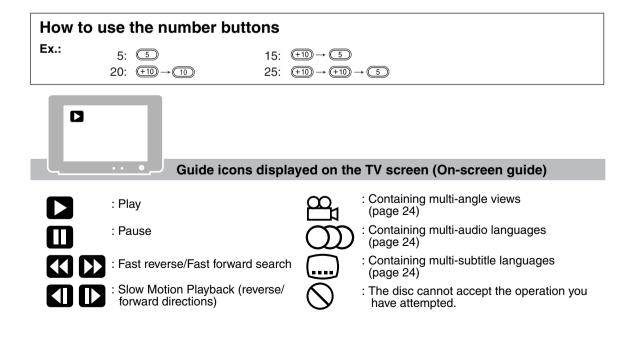
Skip to the beginning of the selection

DVD
VIDEODVD
AUDIOVCDSVCDC DMP3
WMAJPEG

Press I ◄ or ►►I during playback*.

- Press ►►I to skip the next chapter or track.
- Press I < once to skip back to the beginning of the chapter or track currently being played (except for JPEG).
- Press **GROUP/TITLE** KK or W to select the title or group.
- During playback of a JPEG disc, press ►►I or cursor ▼ to play the next file, or press I<< or cursor ▲ to play the previous file.

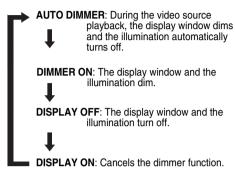
- * For a VCD or SVCD, this operation can be carried out during playback without the PBC function.
- Except for a DVD VIDEO, this operation can also be carried out while the disc is stopped.
- This operation may not be carried out for some discs.



To change the brightness of the display window (DIMMER)

Press DIMMER repeatedly.

• Each time you press the button, the dimmer mode changes as follows:



• When the unit is turned off, pressing **DISPLAY** turns off the clock indication to save the power consumption.

The items above can be carried out for all sources.

Adjusting the volume

Press AUDIO VOL +/-.

NOTE

The volume can be also adjusted by turning the VOLUME control on the main unit.

Adjusting sound quality

Bass: Press BASS +/-.

Treble: Press TREBLE +/-.

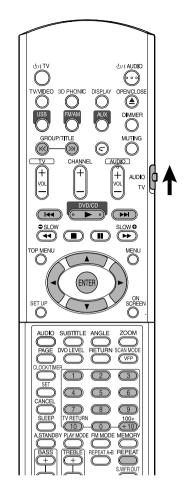
• Adjustable range: -5 to +5

Turning off the sound temporarily (MUTING)

Press MUTING.

- No sound will come out from the speakers, headphones and the subwoofer.
- Press **MUTING** again to restore the sound. When the power is turned off once and turned on again, the sound will be restored.

Playing audio/video files



NOTE

Set the remote control mode selector to **AUDIO** before using the number buttons.



Playback

MP3 WMA JPEG

Display of an MP3/WMA disc is described here as an example.

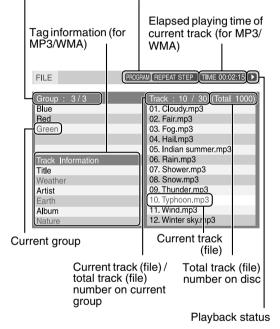
For a JPEG disc, read "track" as "file".

NOTE

When playing a disc containing both MP3/WMA and JPEG files, set one of them to be played, then turn on the system again (page 29).

1 Load a disc.

Current group /total group number Playback mode (PROGRAM, RANDOM, REPEAT)



- 2 Press cursor ▲/▼ to select a group.
- **3** Press cursor ► to move to the track list.
- 4 Press cursor ▲/▼ to select a track.

Slide-Show Playback JPEG

- In Step **5**, for a JPEG disc, when **DVD/CD** ► is pressed, files will be continuously played from the selected file (Slide-Show Playback), and when **ENTER** is pressed, only a selected file will be played.
- Display time for a file in Slide-Show Playback is about 3 seconds.
- When all files are played through, the playback will be automatically stopped.

5 Press DVD/CD \blacktriangleright or ENTER.

NOTE

- GROUP/TITLE KK, ≫ can also be used in Step 2.
- The number buttons can also be used in Step 4. In this case, Step 5 is not needed. (For how to use the number buttons, refer to page 15.)
- Idd or ►►I can also be used in Step 4. In this case, Step 5 is not needed.

Repeat playback

MP3 WMA JPEG

1 Press REPEAT.

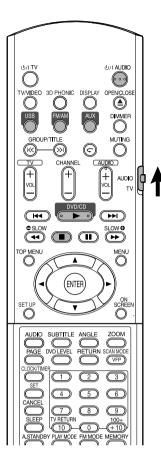
• Each time you press the button, the Repeat mode and its indication change as follows:

Repeat items	On the TV	On the display window
Current track (MP3/WMA only)	REPEAT TRACK	REP TRK G1
Current group	REPEAT GROUP	REP GRP ¢
Entire disc	REPEAT ALL	REP ALL
Cancel	No indication	REP OFF
Current track during Program/ Random play (MP3/WMA only)	REPEAT STEP	REP STEP G1
All tracks during Program/Random play (MP3/WMA only)	REPEAT ALL	REP ALL

2 Press DVD/CD ►.

- The Repeat types can be changed during playback.
- The Repeat mode will be automatically canceled if there is a file that cannot be played (page 3).

Resume Playback



NOTE

Set the remote control mode selector to **AUDIO** before using the number buttons.



DVD DVD AUDIO VCD SVCD

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. The RESUME indicator lights on the display window when you stop playback.

How to suspend playback

Perform any of the following operations during playback.

Press ■ once.*

Press U/I AUDIO to turn off the power.

Change the source to USB, FM, AM or AUX.*

* Even if the power is turned off by pressing U/I AUDIO after this, the position where playback has been stopped will be stored.

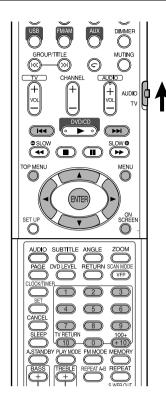


To start playback from the stored position

Press DVD/CD ►.

- This function does not work in Program Playback or Random Playback.
- The position where playback starts again may be a little different from the stopped position.
- When a disc menu is displayed, the Resume function may not work.
- The audio language, the subtitle language and the angle at that time are stored as well as the stopped position.
- The stored position will be cleared if the disc tray is opened. Further, if ■ is pressed during playback, "RESUME" will be displayed. If ■ is pressed again, the stored information will be cleared.
- At the time of purchase, Resume is set to ON. Resume can be set to OFF (page 30).

Select the scene to be played



NOTE

Set the remote control mode selector to **AUDIO** before using the number buttons.

Select the scene from the menu

DVD DVD VCD SVCD

- **1** Press MENU or TOP MENU while the disc is stopped or during playback^{*1}.
 - The disc menu screen will be displayed.
 - Only **TOP MENU** can be used for DVD AUDIOs.
- 2 Press cursor ▲/▼/◀/► (only for a DVD VIDEO or DVD AUDIO) or the number buttons to select the scene to be played.
 - Refer to "How to use the number buttons" (page 15).
 - When the menu screen has a couple of pages, press I ◄< or ►►I to change the page (only for a VCD and SVCD).

3 Press ENTER.

NOTE

- *1 For a VCD and SVCD, this operation can be carried out only when the PBC function is off.
- This operation cannot be carried out for a disc without a menu screen.
- Playback may start for some discs without pressing **ENTER**.

Designate the time (Time search)

VIDEO AUDIO VCD SVCD C D

1 Press ON SCREEN twice during playback^{*2}.

The menu bar will be displayed (page 28).

- 2 Press cursor ◄ /► to select
 ()→.
- **3** Press ENTER.

4 Input the time^{*3} using the number buttons (1-9, 0).

Ex.: When you want to play a DVD VIDEO from the position of (0 hour) 23 minutes 45 seconds, press the buttons in the order:

If you input wrong numbers, press cursor

 to delete the numbers and re-input.

5 Press ENTER.

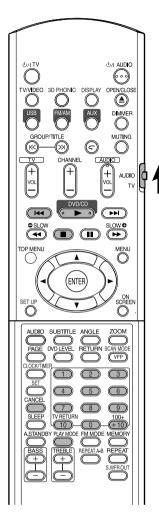
To delete the menu bar, press ON SCREEN.

NOTE

- This function does not work for a DVD VIDEO with no time information recorded.
- This function does not work during Program or Random Playback.
- *2 For a VCD and an SVCD, the operation can be carried out when the disc is stopped or during playback without the PBC function.
- *³ Time search for a DVD VIDEO is from the beginning of the title, for a DVD AUDIO from the beginning of the track being played. Time search for a VCD, an SVCD and a CD is as follows:
 - When the disc is stopped, time search is from the beginning of the disc.
 - When the disc is being played, time search is within the track currently being played.

Program Playback/Random Playback

VIDEO AUDIO VCD SVCD C D MP3



NOTE

Set the remote control mode selector to **AUDIO** before using the number buttons.



Play the disc in the desired order (Program Playback)

It is possible to program a maximum of 99 chapters or tracks. The same chapter or track can be programmed more than once.

While the disc is stopped, press PLAY MODE repeatedly to display "PROGRAM" on the display window on the main unit.

		TV scree	n	
PROGRAM	\sim	14 00100		
No.	Group / Title	Track / Chapter		
1				
2				
3				
4				
5				
6			_	–Program
7				screen
8				

2 Create a program following the description on the TV screen.

Refer to "How to use the number buttons" (page 15).

- The input content varies depending on the disc type.
 - DVD VIDEO: Titles and chapters
 - VCD, SVCD, CD: Tracks
 - DVD AUDIO, MP3/WMA:
 - Groups and tracks
- To select a DVD AUDIO bonus group, carry out the operations of "Playing the Bonus Group" on page 27 in advance to erase the display "BONUS".
- If the input number of chapters or tracks is greater than 99, "MEM FULL" will be displayed.
- In the case of a VCD, SVCD or CD, when the total playback time reaches 9 hours 59 minutes 59 seconds, "--:--" will be displayed on the display window (it is possible to continue programming).

To program on the display window on the main unit, operate as follows:

- (1) Select a title/group using the number buttons.
- (2) Designate a chapter/track number using the number buttons.
 - Refer to "How to use the number buttons" (page 15).
 - The program number will be displayed on the lower display window (Ex.: "P2").
- (3) Repeat the above operations (1) and (2) to complete the program. Then, advance to Step 3.

NOTE

- The group/title number flashes on the display window after making each program step.
- Only for a DVD VIDEO, DVD AUDIO, VCD, or an MP3/WMA: If you press ENTER instead of designating a track/chapter number, "ALL" is displayed and all of the tracks/chapters in the selected group/title are programmed.

3 Press DVD/CD ►.

- To resume normal playback, press **PLAY MODE** repeatedly to show the playback indication on the display window on the main unit while the disc is stopped. The program content will not be erased.
- The following operations erase the program content:
 - Press **CANCEL** repeatedly (Programs will be erased one by one)
 - Press while the disc is stopped
 - Open the disc tray
 - Turn off the power

Playing the disc in a random order (Random Playback)

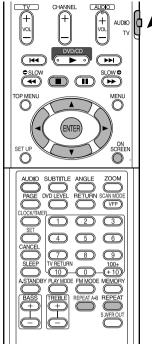
- Press PLAY MODE repeatedly to display "RANDOM" on the display window on the main unit while the disc is stopped.
 - "RANDOM" will also be displayed on the TV screen.

2 Press DVD/CD \blacktriangleright .

- The same chapter or track will not be played twice.
- To resume normal playback, press PLAY MODE repeatedly to show the playback indication on the display window on the main unit while the disc is stopped.
- Random Playback will also be canceled by carrying out the following operations:
 - Open the disc tray
 - Turn off the power
- The previous track will not be returned to even if I ◄ is pressed repeatedly during Random Playback (the beginning of the current chapter or track will be returned to).

Repeat Playback

Refer to page 17 for Repeat Playback of MP3 and JPEG files.



Playing the title/chapter/ group/track/all tracks repeatedly (REPEAT)

VIDEO AUDIO VCD SVCD C D

Press REPEAT during playback.

• Each time you press the button, the Repeat mode and its indication change as follows:

For DVD VIDEO

Repeat items	On the TV	On the display window
Current chapter	СНАР	REP CHAP G1
Current title		REP_TTL G
Cancel	OFF	REP OFF

For DVD AUDIO

Repeat items	On the TV	On the display window
Current track	TRACK	REP TRK Ç1
Current group	GROUP	REP GRP
Cancel	C) OFF	REP OFF

For CD/VCD/SVCD

Repeat items	On the TV	On the display window
Current track	TRACK	REP TRK
All tracks	► ALL	REP ALL
Cancel	C)OFF	REP OFF

NOTE

- For a VCD and SVCD, the operation can be carried out only when the disc is stopped or during playback without the PBC function.
- It is possible to set Repeat mode on the menu bar. For how to operate, refer to "Playing the designated part repeatedly (A-B Repeat Playback)" (page 23).
- For a DVD VIDEO and DVD AUDIO, if the source is switched to FM, AM, USB or AUX, the Repeat mode will be canceled.

Repeat Playback during Program or Random Playback

Repeat items	On the TV	On the display window
Current chapter/ track	CISTEP or REPEAT STEP	REP STEP Ç1
All tracks during Program/Random play	CALL or REPEAT ALL	REP ALL
Cancel	OFF or no indication	REP OFF

Playing the designated part repeatedly (A-B Repeat Playback)

VIDEO AUDIO VCD SVCD C D

1 Press ON SCREEN twice during playback.

The menu bar (page 28) will be displayed.

- 2 Press cursor ◄/► to select
- **3** Press ENTER.

4 Press cursor ▲/▼ to display

A-B

Other Repeat modes can be selected here. For other Repeat modes, refer to "Playing the title/chapter/group/track/all tracks repeatedly (REPEAT)" (page 22).

5 Press ENTER at the start point of the part to be repeated (designating A point).

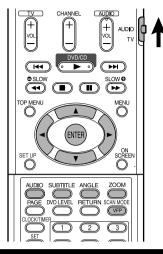
• The icon on the menu bar will be 👛 🗛 .

6 Press ENTER at the end point of the part to be repeated (designating B point).

- The icon on the menu bar will be and the part between A and B points will be played repeatedly.
- A-B Repeat Playback will be canceled by carrying out the following operations:
 - Press ■.
 - Select and press ENTER twice.

- A-B Repeat Playback is possible only within the same title or track. A-B Repeat Playback cannot be carried out during PBC playback, Program Playback, Random Playback and Repeat Playback.
- You can do the A-B Repeat Playback using the **REPEAT A-B** button on the remote control.

Other convenient functions



Selecting the subtitles

DVD SVCD DVD VIDEO SVCD AUDIO

(only for moving image)

 Press SUBTITLE during playback of a disc containing subtitles in several languages.

(....) 1/4

Ex.:



• Each time you press the button, the subtitle will be alternated between ON and OFF.

ENGLISH

2 Press cursor ▲/▼ to select a subtitle language.

- For a language code such as "AA", refer to "Language codes" (page 39).
- The manner of displaying subtitle languages may be different depending on the disc.

3 Wait for a few seconds or press ENTER to go off the window.

NOTE

- It is also possible to operate by using the menu bar (page 28).
- For an SVCD, each time you press **SUBTITLE** in Step **1**, the subtitle type and OFF will be alternated.

Selecting the audio language

VIDEO AUDIO VCD SVCD

Press AUDIO during playback of a disc containing several audio languages.

Ex.:

TV screen

- Each time you press the button, the audio language will be alternated. Also, the audio language can be changed by pressing cursor ▲/▼.
- For a language code such as "AA", refer to "Language codes" (page 39).
- "ST", "L" and "R" displayed when playing a VCD or SVCD respectively represent "Stereo", "Left sound" and "Right sound".

2 Wait for a few seconds or press ENTER to go off the window.

NOTE

It is also possible to operate by using the menu bar (page 28).

Selecting a view angle

VIDEO AUDIO

(only for moving image)

1 Press ANGLE during playback of a scene containing multi-view angles.



• Each time you press the button, the angle will be alternated. Also, the angle can be changed by pressing cursor ▲/▼.

2 Wait for a few seconds or press ENTER to go off the window.

NOTE

It is also possible to operate by using the menu bar (page 28).

Enlarging the picture (ZOOM)

DVD
VIDEOVCDSVCDDVD
AUDIOJPEG

(only for moving image)

- **1** Press ZOOM during playback or while paused.
 - Each time you press the button, the picture magnification will be changed.
 - (For a JPEG) You cannot change the picture magnification during slide-show playback.
- 2 Select the portion you want to see by using cursor A/V/A/>.
 - To resume normal playback, select "ZOOM OFF" in Step 1.

Adjusting the picture quality (VFP)

VIDEO AUDIO VCD SVCD JPEG

1 Press VFP during playback or while paused.

The current setting will be displayed on the TV screen.

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

- **GAMMA:** Adjust this if the neutral color is bright or dark. The brightness of dark and bright portion is maintained.
- BRIGHTNESS: Adjust this if the picture is bright or dark on the whole.
- **CONTRAST:** Adjust this if the far and near position is unnatural.
- **SATURATION:** Adjust this if the picture is whitish or blackish.
- **TINT:** Adjust this if the appearance of flesh tone is unnatural.
- SHARPNESS: Adjust this if the picture is indistinct.

2 Press cursor ◄/► to select VFP mode.

- It is recommended to select "NORMAL" usually, or "CINEMA" in a dark room. When either "NORMAL" or "CINEMA" is selected, go to Step 7.
- When either "USER 1" or "USER 2" is selected, the adjustment can be carried out in detail in the operations after Step **3**.

3 Press cursor ▲/▼ to select an item to be adjusted.

4 Press ENTER.

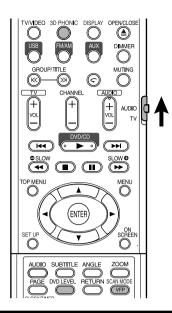
Ex.:		TV screen
	GAMMA	

- **5** Press cursor $\blacktriangle/\checkmark$ to change the value.
- 6 Press ENTER.

To adjust other items, go back to Step 3.

7 Press VFP to go off the window.

- If no operation is made for several seconds during the procedure, the settings made so far will be automatically stored.
- "VFP" is an abbreviation of "Video Fine Processor".

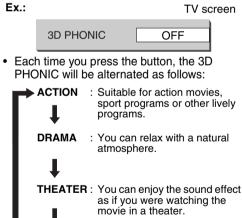


Creating realistic sound (3D PHONIC)

DVD DVD VCD SVCD C D MP3

The two speakers produce an effect resembling surround-sound.

Press 3D PHONIC during playback.



: Cancels 3D PHONIC (initial setting).

 While 3D PHONIC is activated, "3D PHONIC" appears and the 3D PHONIC indicator lights on the display window.

NOTE

OFF

- 3D PHONIC is effective for the speakers and headphones.
- When noise is produced or sound is distorted, set 3D PHONIC to "OFF".
- You cannot operate some DVD AUDIO discs.

Adjusting playback level (DVD LEVEL)

DVD VIDEO

The audio of a DVD VIDEO may be recorded at a lower level (volume) than for other types of disc. If the difference is not to your liking, adjust the DVD Level.

1 Press DVD LEVEL during playback.

- Each time you press the button, the level will be alternated among "NORMAL", "MIDDLE" and "HIGH".
- Select the level while listening to the sound played.

NOTE

- DVD Level is effective only for playback of a DVD VIDEO.
- Even if the DVD Level is changed, the output level from the digital audio output terminal will not be changed.

Enjoying better pictures (SCAN MODE)

In the Progressive mode, better pictures can be enjoyed.

CAUTION

- In order to enjoy pictures in the Progressive mode, the following requirements should be met:
 - There must be a component video input terminal on the TV set connected to the main unit.
 - The main unit and the TV set must be connected using a component video cord (page 11).

When the above requirements are not satisfied, leave the main unit in the Interlace mode. If the Progressive mode is set, pictures may be distorted.

Press and hold SCAN MODE for 4 seconds when there is no disc loaded or while the disc is stopped.

• Each time you press and hold the button, the scan mode alternates between the "PROGRESSIVE" mode and the "INTERLACE" mode.

NOTE

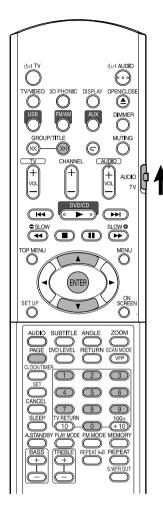
Progressive mode:

All scanned lines will be displayed at once. Pictures of higher resolution than those in the Interlace mode can be realized.

Interlace mode:

This is a conventional image method. Half of the scanned lines displayed in the Progressive mode will appear, alternating with the other half.

DVD AUDIO



NOTE

Set the remote control mode selector to **AUDIO** before using the number buttons.



Playing the Bonus Group

There are some DVD AUDIO discs with a special group, called "Bonus Group", recorded.

NOTE

This operation can be carried out when "BONUS" is lit on the display window on the main unit.

Press GROUP/TITLE ≫ repeatedly during playback to select a bonus group.

"KEY____" appears on the TV screen, and on the display window on the main unit.

• The bonus group is usually recorded as the last group.

2 Press the number buttons to enter a pin code (4 digits).

The method of getting a pin code may be different depending on the disc.

3 Press ENTER.

- When a correct pin code is entered, "BONUS" disappears and the playback of the bonus group starts.
- If an incorrect pin code is entered, try entering a correct pin code again.

Browsable Still Pictures (B.S.P.)

There are some DVD AUDIO discs with still pictures recorded. Among the still pictures, there are pictures called B.S.P. (Browsable Still Pictures). With these pictures, it is possible to switch a picture as if turning over pages.

NOTE

Ex.:

This operation can be carried out when "B.S.P." is lit on the display window on the main unit.

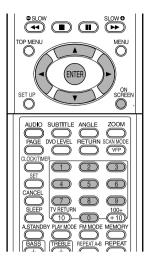
Press PAGE during playback.

Each time you press the button, the still picture will be switched over. It is also possible to switch the picture using cursor \blacktriangle/∇ .

TV screen

2 Wait for a few seconds or press ENTER to go off the window.

VIDEO AUDIO VCD SVCD C D



NOTE

 Set the remote control mode selector to AUDIO before using the number buttons.



• This operation can be carried out when there is a disc loaded. There are some functions that may not work while the disc is stopped.

1 Press ON SCREEN twice.

The status bar and the menu bar will appear on the TV screen.

— Status bar

DVD-VIDEO	8.5Mbps	TITLE 33 CHA	P 33 TOTAL	1:25:58
	СНА	P. ➡ 🖸 1/3 🛛 🖬	1/5 8	1/3

Menu bar

The above is an example for a DVD VIDEO.

2 Press cursor ◄/► to select an item to be operated.

3 Press ENTER.

- The selected function can be set. For the setting content, refer to the following "Functions list".
- The currently active function shows.
- To delete the menu bar, press **ON SCREEN**.

Functions list

For the functions with no special description for the operations, press cursor \blacktriangle/\lor to select, and press **ENTER** to determine.

TIME Time display selection	Select this to change time information displayed on the display window on the main unit and the status bar. Each time ENTER is pressed, the display will be alternated. DVD VIDEO/DVD AUDIO (operating during playback) TOTAL: Elapsed playing time of current title/ group. T.REM : Remaining time of current title/group. TIME : Elapsed playing time of current track. CD operating during playback)/VCD/SVCD SVCD TIME : Elapsed playing time of current track. TOTAL: Elapsed playing time of disc. TIME : Elapsed playing time of disc. TOTAL: Remaining time of disc. T.REM : Remaining time of disc.
C Repeat mode	See page 22.
→ Time search	See page 19.
CHAP. / TRACK / Chapter search (DVD VIDEO)/Track search (DVD AUDIO)	Select a chapter/track. Press the number buttons to input the chapter/track number and press ENTER. Ex.: 5: 5 24: 2 \rightarrow 4
Audio language/ Audio (DVD VIDEO/ DVD AUDIO/VCD/ SVCD)	See page 24.
Subtitle language (DVD VIDEO/SVCD)	See page 24.
View angle (DVD VIDEO/DVD AUDIO)	See page 24.
PAGE Page switch (DVD AUDIO)	Switch the still pictures (B.S.P.) recorded on a DVD AUDIO disc (page 27).

Information displayed on the status bar

DVD VIDEO/DVD AUDIO (the example below is for a DVD VIDEO)

DVD-VIDEO 8.5Mbps	TITLE 33 CHAP 33 TOTAL 1:25:58
Transfer rate (only for DVD VIDEO) DVD VIDEO: Current title number DVD AUDIO: Current group numbe	Time Playback status DVD VIDEO: Current chapter number DVD AUDIO: Current track number

VCD/SVCD/CD (the example below is for a CD)

CD	RANDOM	TRAC	СК 33	TIME	0:25:58	
	l Playback mode				Time	Playback status

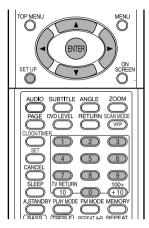
Current track number

Preferences

NOTE

The playback status mark has the same meaning of the mark on the On-screen guide (page 15).





The initial settings of the system can be changed according to the environment the system is used in.

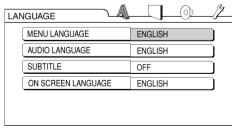
NOTE

- Set the remote control mode selector to AUDIO before using the number buttons.
- The top and bottom of the preference screen may not be displayed on a wide TV. Adjust the picture size on the TV.

Basic operations

Press SET UP while the disc is stopped or no disc is loaded ("NO DISC" is displayed).

• The following screen will be displayed on the TV.



• Proceed with operations by following the description on the TV screen.



NOTE

 If the selected language is not recorded on the disc, the optimum language set for the disc will be displayed. • For a language code such as "AA", refer to the "Language codes" (page 39).

Items	Contents
MENU LANGUAGE	Select the language for the DVD VIDEO menu.
AUDIO LANGUAGE	Select the audio language for the DVD VIDEO.
SUBTITLE	Select the subtitle language for the DVD VIDEO.
ON SCREEN LANGUAGE	Select the language displayed on the preference screens.

PICTURE

Items	Contents (: initial setting)
Items MONITOR TYPE	Contents (initial setting) Select a display method suitable for your TV. 16:9: Select this when the aspect ratio of your wide TV is fixed to 16:9 (when playing a DVD VIDEO recorded at 4:3, the system automatically adjusts the screen width of the output signal). 4:3 LB (Letter Box) : Select this when the aspect ratio of your TV is conventional 4:3. While viewing a wide screen picture, the black bars appear on the top and bottom of the screen. 4:3 PS (Pan Scan): Select this when the aspect ratio of your TV is conventional 4:3. While viewing a wide screen picture, the left and right edges of the picture will not be shown on the screen. (If the disc is not compatible with Pan Scan, the picture will be displayed at the Letter Box ratio.)
PICTURE SOURCE	Select an item suitable to the video source. AUTO: The video source type (a video or film) is automatically selected. FILM: Select this item when you want to view a film or video recorded with the progressive scan method. VIDEO: Select this item when you want to view a normal video.
SCREEN SAVER	Select the Screen Saver mode between ON / OFF (Screen Saver activates when there is no operation made for about 5 minutes since a still picture was last displayed).
FILE TYPE	If there are both MP3/WMA and JPEG files on a disc, you can select which files to play. AUDIO: Select this item when you want to play back MP3/WMA files. STILL PICTURE: Select this item when you want to play back JPEG files.

AUDIO

Items	Contents (: initial setting)
DIGITAL AUDIO OUTPUT	Select an output signal type from the following in accordance with the device connected to the digital audio output terminal (AV amplifier, etc.). (See the list below for the preference items and output signal.)
	PCM ONLY: Device corresponding only to linear PCM.
	DOLBY DIGITAL/PCM: Dolby digital decoder or a device having the same function.
	STREAM/PCM : DTS/Dolby digital decoder or a device having the same function.
DOWN MIX	Switch signal from the digital output terminal of the DVD VIDEO according to the connected device. Select this when Digital Audio Output is set to "PCM ONLY".
	DOLBY SURROUND: A Dolby Pro Logic decoder-built-in device.
	STEREO : An ordinary device.
	When 3D PHONIC is activated, Down Mix does not work.
D (Dynamic). RANGE COMPRESSION	To make adjustments for the difference between a high volume and a low volume when playing back with low volume (only for a DVD recorded with Dolby digital).
	AUTO : D. Range Compression automatically works.
	ON: D. Range Compression always works.



ltems	Contents (: initial setting)
items	contents (. Initial setting)
RESUME	Select ON /OFF. (page 18)
ON SCREEN GUIDE	Select ON /OFF. (page 15)
PARENTAL LOCK	Set the Parental Lock function to cut off violent scenes or replace the scenes with others. (This is effective only for discs equipped with the Parental Lock function.)
	COUNTRY CODE (page 31): Select your country.
	SET LEVEL: The restriction is stricter as the number becomes smaller. "NONE" is no restriction.
	PASSWORD (essential): Enter four-digit number as your password using the number buttons (1-9, 0) every time. (Enter "8888" if you forget your password.) The password is required at the time of playback.
	 If you enter a wrong password three times, "EXIT" will be automatically selected.

List of relationships of DIGITAL AUDIO OUTPUT preference items and output signal

Playback disc	DIGITAL AUDIO OUTPUT			
Playback disc	STREAM/PCM DOLBY DIGITAL/PCM		PCM ONLY	
48 kHz, 16/20/24 bits Linear PCM DVD VIDEO 96 kHz linear PCM DVD VIDEO	- 48 kHz, 16 bits stereo linear PCM			
48/96/192 kHz, 16/20/24 bits linear PCM DVD AUDIO				
44.1/88.2/176.4 kHz, 16/20/24 bits linear PCM DVD AUDIO	44.1 kHz, 16 bits stereo linear PCM			
DTS DVD VIDEO	DTS bit stream 48 kHz, 16 bits stereo linear PCM		tereo linear PCM	
DOLBY DIGITAL DVD VIDEO/ DVD AUDIO	DOLBY DIGITAL bit stream		48 kHz, 16 bits stereo linear PCM	
CD/VCD/SVCD	44.1 kHz, 16 bits stereo linear PCM/48kHz, 16 bits linear PCM			
DTS CD	DTS bit stream 44.1 kHz, 16 bits linear PCM		oits linear PCM	
MP3/WMA disc	32/44.1/48 kHz, 16 bits stereo linear PCM			

NOTE

• For a DVD VIDEO: There is a 20 bit or 24 bit output for DVD VIDEO without content protection set.

• For a DVD AUDIO: There is no output for DVD AUDIO with content protection set.

Country/Area codes

Advanced operations

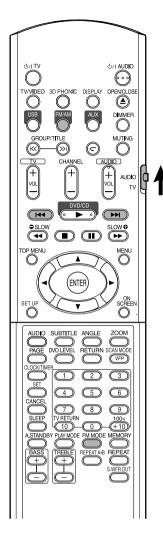
AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
AN	Netherlands Antilles
AO	Angola
AQ	Antarctica
AR	Argentina
AS	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AZ	Azerbaijan
BA	Bosnia and
	Herzegovina
BB	Barbados
BD	Bangladesh
BE	Belgium
BF	Burkina Faso
BG	Bulgaria
BH	Bahrain
BI	Burundi
BJ	Benin
BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia
BR	Brazil
BS	Bahamas
BT	Bhutan
BV	Bouvet Island
BW	Botswana
BY	Belarus
BZ	Belize
CA	Canada
CC	Cocos (Keeling)
	Islands
CF	Central African
	Republic
CG	Congo
CH	Switzerland
CI	
01	Côte d'Ivoire
CK	Cook Islands
CK CL	
CK CL CM	Cook Islands Chile Cameroon
CK CL CM CN	Cook Islands Chile Cameroon China
CK CL CM CN CO	Cook Islands Chile Cameroon China Colombia
CK CL CM CN CO CR	Cook Islands Chile Cameroon China Colombia Costa Rica
CK CL CM CN CO CR CU	Cook Islands Chile Cameroon China Colombia Costa Rica Cuba
CK CL CM CN CO CO CR CU CV	Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde
CK CL CM CN CO CR CU CV CV	Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island
CK CL CM CN CO CC CV CV CX CY	Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus
CK CL CM CN CO CR CU CV CV CX CY CZ	Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic
CK CL CM CN CO CC CV CV CX CY CZ DE	Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany
CK CL CM CN CO CC CV CV CX CY CZ DE DJ	Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti
CK CL CM CN CO CR CV CV CX CY CZ DE DJ DK	Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark
CK CL CM CN CO CR CV CV CX CY CZ DE DJ DK DM	Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica
CK CL CM CO CO CR CU CV CV CX CY CZ DE DJ DK DM DO	Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica Dominica Republic
CK CL CM CO CO CR CU CV CX CY CZ DJ DJ DK DM DO DZ	Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica Dominica Republic Algeria
CK CL CM CO CR CU CV CX CY CZ DE DJ DK DM DO DZ EC	Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica Dominica Dominica Ecuador
CK CL CM CO CR CU CV CX CY CZ DE DJ DK DM DO DZ EC EE	Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica Dominica Dominica Ecuador Estonia
CK CL CM CO CO CR CU CV CV CX CY CZ DD DJ DK DM DO DZ EC EE EG	Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica Dominica Dominica Ecuador Estonia Egypt
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CK CL CM CO CO CR CU CV CV CX CY CZ DD DJ DK DM DO DZ EC EE EG	Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica Dominica Dominica Ecuador Estonia Egypt

ES	Spain
ΕT	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands
	(Malvinas)
FM	Micronesia
	(Federated States of)
FO	Faroe Islands
FR	France
FX	France, Metropolitan
GA	Gabon
GB	United Kingdom
GD	Grenada
GE	Georgia
GF	French Guiana
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe
GQ	Equatorial Guinea
GR	Greece
GS	South Georgia and
00	the South Sandwich
	Islands
GT	Guatemala
GU	
	Guam
GW	Guinea-Bissau
GY	Guyana
HK	Hong Kong
ΗM	Heard Island and
	McDonald Islands
HN	Honduras
HR	Croatia
HT	Haiti
HU	Hungary
ID	Indonesia
IE	Ireland
IL	Israel
IN	India
10	British Indian Ocean
	Territory
IQ	Iraq
IR	Iran (Islamic Republic of)
IS	Iceland
IT	Italy
JM	Jamaica
JO	Jordan
JΡ	Japan
KE	Kenya
KG	Kyrgyzstan
KH	Cambodia
KI	Kiribati
КM	Comoros
KN	Saint Kitts and Nevis
KP	Korea, Democratic
	People's Republic of
KR	Korea, Republic of
KW	Kuwait
KY	Cayman Islands
KZ	Kazakhstan
LA	Lao People's
L/ \	
	L Democratic Republic
LB	Democratic Republic Lebanon

LC Saint Lucia LI Liechtenstein LK Sri Lanka LR Liberia LS Lesotho LT Lithuania LU Luxembourg LV Latvia LY Libyan Arab Jamahiriya MA MOrocco MC MD Moldova, Republic of MG Madagascar MH Marshall Islands ML Mali MM Myanmar MN Mongolia MQ Mactau MR Macautiania MR Mauritania MS Montserrat MT Malta MU Malavita MW Malaysia MX Mexico MY Malaysia MZ Mozambique NA Narmibia	f
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MZ Mozambique NA Namibia	
NA Namibia	
NC New Caledonia	
NE Niger	
NF Norfolk Island	
NG Nigeria	
NI Nicaragua	_
NL Netherlands	
NO Norway	_
NP Nepal	
NR Nauru	
NU Niue	
NZ New Zealand	
OM Oman	_
PA Panama	
PE Peru	
PF French Polynesia	
PG Papua New Guinea	
PH Philippines	
PK Pakistan	
PL Poland	
PL Poland PM Saint Pierre and	
PL Poland PM Saint Pierre and Miquelon	
PL Poland PM Saint Pierre and Miquelon PN Pitcairn	
PL Poland PM Saint Pierre and Miquelon PN Pitcairn PR Puerto Rico	
PL Poland PM Saint Pierre and Miquelon PN Pitcairn PR Puerto Rico PT Portugal	
PL Poland PM Saint Pierre and Miquelon PN Pitcairn PR Puerto Rico PT Portugal PW Palau	
PL Poland PM Saint Pierre and Miquelon PN Pitcairn PR Puerto Rico PT Portugal PW Palau PY Paraguay	
PL Poland PM Saint Pierre and Miquelon PN Pitcairn PR Puerto Rico PT Portugal PW Palau PY Paraguay QA Qatar	
PL Poland PM Saint Pierre and Miquelon PN Pitcairn PR Puerto Rico PT Portugal PW Palau PY Paraguay QA Qatar RE Réunion	
PL Poland PM Saint Pierre and Miquelon PN Pitcairn PR Puerto Rico PT Portugal PW Palau PY Paraguay QA Qatar RE Réunion RO Romania	
PL Poland PM Saint Pierre and Miquelon PN Pitcairn PR Puerto Rico PT Portugal PW Palau PY Paraguay QA Qatar RE Réunion RO Romania RU Russian Federation	
PL Poland PM Saint Pierre and Miquelon PN Pitcairn PR Puerto Rico PT Portugal PW Palau PY Paraguay QA Qatar RE Réunion RU Russian Federation RW Rwanda	
PL Poland PM Saint Pierre and Miquelon PN Pitcairn PR Puerto Rico PT Portugal PW Palau PY Paraguay QA Qatar RE Réunion RU Russian Federation RW Rwanda SA Saudi Arabia	
PL Poland PM Saint Pierre and Miquelon PN Pitcairn PR Puerto Rico PT Portugal PW Palau PY Paraguay QA Qatar RE Réunion RU Russian Federation RW Rwanda	

0.0	0.1
SD	Sudan
SE	Sweden
SG	Singapore
SH	Saint Helena
SI	Slovenia
SJ	Svalbard and Jan
	Mayen
SK	Slovakia
SL	Sierra Leone
SM	San Marino
SN	Senegal
SO	Somalia
SR	Suriname
ST	Sao Tome and Principe
SV	El Salvador
SY	Syrian Arab Republic
SZ	Swaziland
TC	Turks and Caicos
	Islands
TD	Chad
TF	French Southern
IF	Territories
то	
TG	Togo
TH	Thailand
TJ	Tajikistan
TK	Tokelau
TM	Turkmenistan
TN	Tunisia
TO	Tonga
TP	East Timor
TR	Turkey
TT	Trinidad and Tobago
TV	Tuvalu
TW	Taiwan
ΤZ	Tanzania, United
	Republic of
UA	Ukraine
UG	Uganda
UM	United States Minor
	Outlying Islands
US	United States
UY	Uruguay
UZ	Uzbekistan
VA	Vatican City State
٧A	
VC	(Holy See) Saint Vincent and the
VC	
	Grenadines
VE	Venezuela
VG	Virgin Islands (British)
VI	Virgin Islands (U.S.)
VN	Viet Nam
VU	
	Vanuatu
WF	Wallis and Futuna
WF	
	Wallis and Futuna
WF	Wallis and Futuna Islands
WF WS	Wallis and Futuna Islands Samoa
WF WS YE	Wallis and Futuna Islands Samoa Yemen Mayotte
WF WS YE YT YU	Wallis and Futuna Islands Samoa Yemen Mayotte Yugoslavia
WF WS YE YT YU ZA	Wallis and Futuna Islands Samoa Yemen Mayotte Yugoslavia South Africa
WF WS YE YT YU ZA ZM	Wallis and Futuna Islands Samoa Yemen Mayotte Yugoslavia South Africa Zambia
WF WS YE YT YU ZA	Wallis and Futuna Islands Samoa Yemen Mayotte Yugoslavia South Africa

Listening to a radio broadcast



NOTE

Set the remote control mode selector to **AUDIO** before using the number buttons.

Selecting a station

1 Press FM/AM.

Each time you press the button, FM and AM change alternately.

2 Press I◄◄/►►I to select the station (frequency).

Automatic tuning:

Hold down $| \blacktriangleleft | > |$ until the system starts searching, and then release the button. (The AUTO indicator lights while searching.) When a station of sufficient signal strength is tuned in to, the system stops searching automatically.

To stop searching manually, press I

Manual tuning:

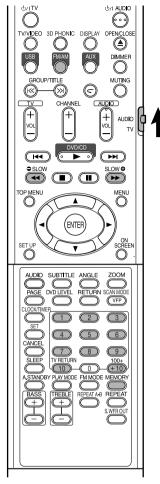
Each time you press I◄◄/►►I, the frequency changes.

• When an FM stereo program is received, the ST (Stereo) indicator lights.

NOTE

If the stereo FM program currently tuned in to is noisy, you can improve the reception by pressing FM MODE to switch to the monaural mode. If you press FM MODE again, or tune in to another station, the receiving mode returns automatically to the stereo mode.

Tuning in to a preset station



Presetting stations in the system allows you to easily tune in to a station.

NOTE

Set the remote control mode selector to **AUDIO** before using the number buttons.

Presetting stations

The system stores up to 30 FM stations and up to 15 AM stations.

 Select a station you want to store (page 32 for how to select).

2 Press MEMORY.

"MEMORY" is flashing on the display window for a while.

3 Select the number you want to store by pressing number buttons while "MEMORY" is flashing.

- You can also select the number by using the number buttons.
- Refer to "How to use the number buttons" (page 15).

4 Press MEMORY while the selected number is flashing.

"STORED" appears on the display window and the selected station is stored.

NOTE

- Storing a new station to a used number erases the previously stored station.
- After storing new stations, do not unplug the AC power cord to turn off the system. If you do so, the new preset stations will be cleared.

Tuning in to a preset station

- Press FM/AM to select either FM or AM.
- **2** Press the number buttons to select the memory number of a station you want to tune in to.

Refer to "How to use the number buttons" (page 15).

You can also select by pressing $\triangleleft \triangleleft / \triangleright \triangleright$.

This System is equipped with a USB terminal in the door of the front panel. You can connect your PC to this terminal and enjoy the sound out of 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

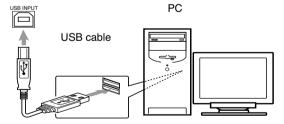
• Always set volume to "VOL MIN" when connecting or disconnecting the other equipment.

How to install the USB drivers

The following procedure is described using the English version of Windows® XP. If your PC is running on a different version of operation system or language, the screens shown on your monitor may differ from the ones used in the following procedure.

- **1** Turn on your PC and start running Windows® 98SE, Windows® Me, Windows® 2000 or Windows® XP.
 - If the PC has been turned on, quit all the applications running.
- **2** Turn on the System and press USB.
- **3** Connect the System to the PC using a USB cable (not supplied).

(in the door of the front panel)



• Use "USB series A plug to B plug" cable (version 1.1 or later) less than 3 m.

4 The USB drivers are installed automatically.

• If the USB drivers are not installed automatically, install the USB drivers following the instructions on the PC's monitor.

5 Check if the drivers are correctly installed.

- 1 Open the Control Panel on your PC: Select [Start] → [Control Panel]
- 2 Click [System] → [Hardware] → [Device Manager] → [Sound, video and game controllers] and [Universal Serial Bus controllers].
- 3 Check whether the following items appear.
 - USB Audio Device
 - USB Composite Device

If the items cannot be shown, disconnect the USB cable and connect it again. If it does not work yet, turn off your PC and repeat from Step **1**.

To play back sounds on the PC

Refer to the manuals supplied with the music application software installed in the PC.

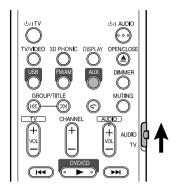
Start the application.

NOTE

- 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
- DO NOT turn off the System and disconnect the USB cable while installing drivers and playing back, and for several seconds after your PC is recognized the System.
- The installed drivers can be shown only when the System is connected to the PC.

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

Listening to the sound of other audio device



Connect the other audio device to this system in advance (page 10).

1 Press AUX.

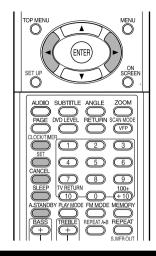
The source changes to AUX.

2 Play the other audio device.

For details, refer to the manual of the device connected.

3 Adjust the volume and the sound quality of the system (page 10).

Setting the Various Timer



Setting the built-in clock

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

- To exit from the clock setting, press CLOCK/ TIMER as required.
- To correct a misentry during the procedure below, pressing **CANCEL** can return to the previous step.

1 Press CLOCK/TIMER.



- If you have already adjusted the clock before, press the button repeatedly until the clock time starts flashing.
- 2 Press cursor *◄*/► to adjust the hour, then press SET.

3 Press cursor *◄/►* to adjust the minute, then press SET.

Now the built-in clock starts to work.

Setting the daily timer

Using the daily timer, you can wake up with your favorite song.

- You can store the three daily timer settings; however, you can activate only one of the daily timer.
- To correct a misentry during the procedure below, pressing **CANCEL** can return to the previous step.

How the 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 window. Daily timer turns on the system at the same time everyday until the timer setting is canceled manually or another daily timer is activated.

When the on-time comes:

The system turns on, tunes in to the specified station or start playback the loaded disc with the volume level set to the preset level.

- The timer setting remains in memory until you can change it.
- Without canceling the daily timer, you can change the source or adjust the volume after the daily timer starts playback.
- **1** Press CLOCK/TIMER repeatedly to show "DAILY 1."
 - Each time you press the button, the clock setting changes as follows:

Source indication	\rightarrow	DAILY 1
Ť		Ļ
Clock adjust		ON AM 6:00
ON PM 6:00		DAILY 2
Î DAILY 3 ◄	<u> </u>	↓ ON PM 12:00

- 2 Press cursor *◄*/► to adjust the hour of the timer-on time, then press SET.
- 3 Press cursor </ → to adjust the minute of the timer-on time, then press SET.
- **4** Repeat Step **2** and **3** to set the timer-off time.
- 5 Press cursor *◄/►* to select the playback source, then SET.
 - Each time you press the button, the clock setting changes as follows:

 $\begin{array}{c} \text{AUX} \longleftrightarrow \text{TUNER FM} \\ \uparrow \\ \text{DISC} \longleftrightarrow \text{TUNER AM} \end{array}$

- When selecting the tuner, press cursor ◄/► to select a preset channel.
- When selecting "DISC", you can specify the group and track. For the discs other than MP3/WMA, the group selection does not take effect.

- 6 Press cursor *◄*/► to adjust the volume level, then SET.
- **7** Turn off the system.

To turn off the timer setting

1 Press CLOCK/TIMER repeatedly to select the timer setting.

2 Press CANCEL to turn off the selected setting.

• Pressing **SET** activates the timer setting again.

Auto Standby

If there is no operation for 3 minutes while the disc is stopped, the power will be automatically turned off.

Press A.STANDBY during playback or while the disc is stopped, or no disc is loaded ("NO DISC" appears).

The A.STANDBY indicator lights on the display window on the main unit.

When a stopped state is entered (after playback is finished, for example), the A.STANDBY indicator starts blinking.

This means that the power will be turned off automatically if there is no operation for 3 minutes. And 10 seconds before the power is turned off, "A.STANDBY" starts flashing.

Releasing Auto Standby

Press A.STANDBY.

"A.STANDBY" will be turned off on the display window on the main unit.

NOTE

When the source is FM, AM, USB or AUX, Auto Standby does not work.

Sleep Timer

When the time you specify elapses, the system will be turned off by itself.

Press SLEEP.

Each time you press the button, the time indicated on the display window on the main unit changes (in minutes).

Changing the time

Reselect the time by pressing SLEEP repeatedly.

Confirming the time

Press **SLEEP** once while Sleep Timer is set.

Releasing

Press **SLEEP** repeatedly until "SLEEP OFF" appears.

NOTE

Sleep Timer will also be released when the power is turned off.

Tray Lock

You can lock the disc tray to prevent the disc from being ejected.

Setting

While the system is turned off, press \triangleq (Open/ Close) with \blacksquare (Stop) on the main unit held. "LOCKED" appears on the display window on the main unit.

Releasing

Carry out the same operations as those for setting. "UNLOCKED" appears on the display window on the main unit. When you encounter a problem that seems to be a fault, check the following points before contacting your JVC service center.

Power source

- Power does not come on.
 - The power cord is not connected to the main unit or an AC outlet.
 - → Connect the power cord correctly (page 11).

Operation

- You cannot operate any button.
 - Some specific operations may be inhibited for some discs.
- The remote control does not work.
 - The dry-cell batteries have run out.
 → Replace the batteries (page 6).
- A disc cannot be played back.
 - In the case of DVD VIDEO discs
 - → Check the Region Code number of the discs (page 3).
 - "NO PLAY" is displayed on the display window.

It is not a disc that can be played on this system.

- \rightarrow Check the disc type (page 3).
- Parental Lock is set (page 30).

About images

- No picture appears.
 - The video cord is not connected correctly. \rightarrow Page 11
 - Both of the component video jack and Svideo jack are connected.
 → Connect either (page 11).
- The picture is distorted.
 - A VCR is connected between the main unit and the TV set.
 - → Connect the main unit directly to the TV set (page 11).
 - Although this system is connected to a non-Progressive TV set, DVD's scan mode is set to "PROGRESSIVE".
 - → Set the scan mode to "INTERLACE" (page 26).
- The screen size is abnormal.
 - The screen size is set improperly.
 - → Set "MONITOR TYPE" according to the TV set you are using (page 29).

- The TV screen darkens.
 - "SCREEN SAVER" is set.
 - \rightarrow If set, press any button (page 29).
- The screen cannot be switched.
 - The Progressive mode is applied only to component video output.

About sound

There is no sound.

- Speakers are not connected correctly.
 → Page 9
- The sound is muted.
 → Page 16
- "NO AUDIO" is displayed on the display window.
 - The disc may have been produced through illegal copying.
 - → Confirm at the store where you bought the disc.
- The sound is weak compared with TV or Video.
 - "DVD LEVEL" is set to "NORMAL".
 → Set to other than "NORMAL" (page 26).
- The sound is distorted.
 - The volume is turned up too high.
 → Turn down the volume (page 16).
- No sound comes out of the subwoofer.
 - "SUBWOOFER" is turned off.
 - \rightarrow Press **S.WFR OUT** to turn on (page 10).
- The sound through the USB connection stops.
 - 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
 - \rightarrow Restart the music software on your PC
 - \rightarrow Turn off and on the system

About radio

- The sound is noisy while receiving/Receiving is disabled.
 - The antenna is not connected correctly.
 → Connect the antenna correctly (page 8).

Language codes

Others

- It is not possible to switch audio or subtitles between languages.
 - The disc does not contain 2 or more languages.
 - → If only a single language is recorded on the disc, switching to another language is impossible (page 24).
- No subtitle is displayed.
 - The disc does not contain any subtitles.
 → A DVD VIDEO without subtitles cannot display any subtitles.
 - The subtitle language is set to "OFF".
 → Specify a language (page 29).
 - Before or after A point or B point in A-B Repeat Playback, no subtitle may be displayed.
- The disc cannot be ejected.
 - Tray Lock is set.
 → page 37
- "LR ONLY" is displayed on the display window (for a DVD AUDIO).
 - Because, for the track being played back, down mix is inhibited for multi-channel sound, the sound of L and R is output directly (a normal action).

If the system does not work properly despite correction measures above

Many functions of this system are implemented by microcomputers. If pressing any button does not result in the normal action, disconnect the power plug from the outlet, wait for a while, and reconnect the system.

Code	Language	Code	Language
AA	Afar	MK	Macedonian
AB	Abkhazian	ML	Malayalam
AF	Afrikaans	MN	Mongolian
AM	Ameharic	MO	Moldavian
AR	Arabic	MR	Marathi
AS	Assamese	MS	Malay (MAY)
AY	Aymara	MT	Maltese
AZ	Azerbaijani	MY	Burmese
BA	Bashkir	NA	Nauru
BE	Byelorussian	NE	Nepali
BG	Bulgarian	NL	Dutch
BH	Bihari	NO	Norwegian
BI	Bislama	OC	Occitan
BN	Bengali, Bangla	OM	(Afan) Oromo
BO	Tibetan	OR	Oriya
BR	Breton	PA	Panjabi
CA	Catalan	PL	Polish
CO	Corsican	PS	Pashto, Pushto
CS	Czech	PT	Portuguese
CY	Welsh	QU	Quechua
DA	Danish	RM	Rhaeto-Romance
DZ	Bhutani	RN	Kirundi
EL	Greek	RO	Rumanian
EO	Esperanto	RU	Russian
ET	Estonian	RW	Kinyarwanda
EU	Basque	SA	Sanskrit
FA	Persian	SD	Sindhi
FI	Finnish	SG	Sangho
FJ	Fiji	SH	Serbo-Croatian
FO	Faroese	SI	Singhalese
FY	Frisian	SK	Slovak
GA	Irish	SL	Slovenian
GD	Scots Gaelic	SM	Samoan
GL	Galician	SN	Shona
GN	Guarani	SO	Somali
GU	Gujarati	SQ	Albanian
HA	Hausa	SR	Serbian
HI	Hindi	SS	Siswati
HR	Croatian	ST	Sesotho
HU	Hungarian	SU	Sundanese
HY	Armenian	SV	Swedish
IA	Interlingua	SW	Swahili
IE	Interlingue	TA	Tamil
IK	Inupiak	TE	Telugu
IN	Indonesian	TG	Taiik
IS	Icelandic	TH	Thai
IW	Hebrew	TI	Tigrinya
JI	Yiddish	ТК	Turkmen
JW	Javanese	TL	Tagalog
KA	Georgian	TN	Setswana
KK	Kazakh	TO	Tonga
KL	Greenlandic	TR	Turkish
KM	Cambodian	TS	Tsonga
	Kannada	TT	Tatar
KINI		TW	Twi
KN	Koroan (KUUU)	1 1 7 7	
KO	Korean (KOR)		Likrainian
KO KS	Kashmiri	UK	Ukrainian
KO KS KU	Kashmiri Kurdish	UK UR	Urdu
KO KS KU KY	Kashmiri Kurdish Kirghiz	UK UR UZ	Urdu Uzbek
KO KS KU KY LA	Kashmiri Kurdish Kirghiz Latin	UK UR UZ VI	Urdu Uzbek Vietnamese
KO KS KU KY LA LN	Kashmiri Kurdish Kirghiz Latin Lingala	UK UR UZ VI VO	Urdu Uzbek Vietnamese Volapuk
KO KS KU KY LA LN LO	Kashmiri Kurdish Kirghiz Latin Lingala Laothian	UK UR UZ VI VO WO	Urdu Uzbek Vietnamese Volapuk Wolof
KO KS KU LA LA LO LT	Kashmiri Kurdish Kirghiz Latin Lingala Laothian Lithuanian	UK UR UZ VI VO WO XH	Urdu Uzbek Vietnamese Volapuk Wolof Xhosa
KO KS KU KY LA LN LO	Kashmiri Kurdish Kirghiz Latin Lingala Laothian	UK UR UZ VI VO WO	Urdu Uzbek Vietnamese Volapuk Wolof

Specifications

General

Power source: Power consumption:

Weight: $(W \times H \times D)$:

AC 120 V \sim , 60 Hz 25 W (in operation) 1.0 W (on standby) 3.0 kg (6.7 lbs) External dimensions 150 mm x 152 mm x 246 mm $(5^{15}/_{16} \text{ in. } x 6 \text{ in. } x 9^{11}/_{16} \text{ in.})$

DVD player

Playable discs: DVD VIDEO, DVD AUDIO, VCD, SVCD, CD, CD-R/RW (CD, VCD, MP3, WMA, JPEG format), DVD-R/-RW (video format)

Video output

Color system:	NTSC
Horizontal resolution:	500 lines
Composite x1:	1.0 V (p-p)/75 Ω,
	synchronization negative
S-video x1:	Y output: 1.0 V (p-p)/75 Ω,
	synchronization negative
	C output: 0.286 V (p-p)/75 Ω
Component x1:	Y output: 1.0 V (p-p)/75 Ω
	P_B/P_R output: 0.7 V (p-p)/75 Ω

Audio output

Analog sound output: Speakers x2 Output power:

Fitting impedance:

Fitting impedance:

Headphones x1:

Subwoofer x1:

Optical x1:

Digital sound output:

18 W per channel, min. RMS, at 4 Ω at 1 kHz with no more than 10% total harmonic distortion 4 Ω to 16 Ω $11 \text{ mW}/32 \Omega$ 16 Ω to 1 k Ω 500 mVrms/10 k Ω

-21 dBm to -15 dBm

Aud	io	inp	ul

Audio input	
Sound input:	AUX x1
	400 mV/50 kΩ
	USB AUDIO x1
Tuner	
FM tuner:	
Receiving frequency: Antenna: AM (MW) tuner:	87.5 MHz to 108.0 MHz 75 Ω - Unbalanced type
Receiving frequency: Antenna:	530 kHz to 1 710 kHz External antenna jack (loop antenna)
Speaker	
Speaker Type:	Full range
•	1-way bass-reflex type
Туре:	1-way bass-reflex type Magnetically shielded type
Type: Speaker:	1-way bass-reflex type Magnetically shielded type 8 cm (3 ³ / ₁₆ inches) cone x1
Type: Speaker: Frequency response:	1-way bass-reflex type Magnetically shielded type 8 cm (3 ³ / ₁₆ inches) cone x1 55 to 20 000 Hz
Type: Speaker: Frequency response: Power handling capacity:	1-way bass-reflex type Magnetically shielded type 8 cm (3 ³ / ₁₆ inches) cone x1 55 to 20 000 Hz
Type: Speaker: Frequency response:	1-way bass-reflex type Magnetically shielded type 8 cm (3 ³ / ₁₆ inches) cone x1 55 to 20 000 Hz 30 W
Type: Speaker: Frequency response: Power handling capacity: Impedance:	1-way bass-reflex type Magnetically shielded type 8 cm ($3^{3}/_{16}$ inches) cone x1 55 to 20 000 Hz 30 W 4 Ω

Designs and Specifications are subject to change without notice.

*****	*****	****	****
	LIMITED W		
	ONLY FOR PRODUCT I		CONSUMER VIDEO 1-90
	JVC) warrants this produ CHASER to be FREE FR	ict and all parts thereof, OM DEFECTIVE MATER	, except as set forth below ONLY IALS AND WORKMANSHIP from
x k k k	PARTS 1 YR	LABOR 90 DAYS	
THIS LIMITED WARRANTY IS V		Y (50) UNITED STATES,	, THE DISTRICT OF COLUMBIA AND
rebuilt equivalents at no charge t during normal business hours at remainder of the Warranty Period	o the original owner. Sur JVC authorized service of A. All products may be br ize of 27" or greater qual	ch repair and replacemer enters. Parts used for rep ought to a JVC authorize ify for in-home service. Ir	r replace defective parts with new or nt services shall be rendered by JVC placement are warranted only for the ed service center on a carry-in basis. n such cases, a technician will come epaired in your home.
center, please be sure to package the problem(s). Please call 1-80	<u>ct to the retailer</u> he JVC authorized servio ge it carefully, preferably 0-252-5722 to locate the vebsite http://www.jvc.co	in the original packaging e nearest JVC authorize	shipping the product to the service g, and include a brief description of d service center. Service locations fies for in-home service, the service
If you have any questions cor at 800-252-5722	ncerning your JVC Proc	luct, please contact ou	r Customer Relations Department
installation, lack of reasonab JVC to render such service, number has been altered, ta 2. Initial installation, installatior 3. Operational adjustments co 4. Damage that occurs in ship 5. Signal reception problems a	ubject to abuse, accident, le care, or if repaired or i or if affixed to any attach mpered with, defaced or and removal from cabin vered in the Owner's Ma ment, due to act of God, and failures due to line p s/Video Pick-up Tubes/CCD argeable Batteries are co ial purposes, including, b	serviced by anyone othe iment not provided with i removed; lets or mounting systems anual, normal maintenar and cosmetic damage; wower surge; Image Sensors are covere overed for 90 days from i but not limited to rental.	nce, video and audio head cleaning; ed for 90days from the date of purchase; the date of purchase);
There are no express warrantie	•		
LIMITED TO THE DURATION OF			RANTY OF MERCHANTABILITY, IS
DAMAGES, WHETHER DIREC DAMAGE TO TAPES, RECORD OF ANY BREACH OF THIS WARRANTIES OF MERCHANT WARRANTY PERIOD SET FOR	CT, INCIDENTAL OR (S OR DISCS) RESULTIN WARRANTY. ALL EXI ABILITY AND FITNESS TH ABOVE.	CONSEQUENTAL (INC IG FROM THE USE OF PRESS AND IMPLIED S FOR PARTICULAR P	INCONVIENCE, OR ANY OTHER LUDING, WITHOUT LIMITATION, THIS PRODUCT, OR ARISING OUT WARRANTIES, INCLUDING THE PURPOSE, ARE LIMITED TO THE
	e limitations or exclusio	ns may not apply to yoι	uges or limitations on how long an u. This warranty gives you specific
	Y OF AMERICA AMERICAS CORP. <u>http://w</u>	1700 Valley Wayne, NJ (/ww.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 :	

TO OUR VALUED CUSTOMER

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

NEED HELP ON HOW TO HOOK UP? NEED ASSISTANCE ON HOW TO OPERATE? NEED TO LOCATE A JVC SERVICE CENTER? LIKE TO PURCHASE ACCESSORIES?

JVC[®] IS HERE TO HELP! TOLL FREE: 1(800)252-5722 http://www.jvc.com

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.

JVC

0305AIMMDWJEM





COMPACT COMPONENT SYSTEM SYSTEME DE COMPOSANTS COMPACT

EX-D1 Consists of CA-EXD1 and SP-EXD1 Composée du CA-EXD1 et du SP-EXD1





/ INSTRUCTIONS MANUEL D'INSTRUCTIONS English

GVT0143-002A [C]



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



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

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

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

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

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

CAUTION — STANDBY/ON U/| button!

Disconnect the mains plug to shut the power off completely (the STANDBY lamp goes off). The STANDBY/ON \bigcirc/I button in any position does not disconnect the mains line.

- When the system is on standby, the STANDBY lamp lights red.
- When the system is turned on, the STANDBY lamp lights green.

The power can be remote controlled.

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.

ATTENTION—Touche STANDBY/ON U/

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

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

L'alimentation ne peut pas être commandée à distance.

For Canada/pour le Canada

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT. **ATTENTION:** POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQUAU FOND.

For Canada/pour le Canada

THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS B LIMITS FOR RADIO NOISE EMISSIONS FROM DIGITAL APPARATUS AS SET OUT IN THE INTERFERENCE-CAUSING EQUIPMENT STANDARD ENTITLED "DIGITAL APPARATUS", ICES-003 OF THE DEPARTMENT OF COMMUNICATIONS. CET APPAREIL NUMERIQUE RESPECTE LES LIMITES DE BRUITS RADIOELECTRIQUES APPLICABLES AUX APPAREILS NUMIRIQUES DE CLASSE B PRESCRITES DANS LA NORME SUR LE MATERIEL BROUILLEUR: "APPAREILS NUMERIQUES", NMB-003 EDICTEE PAR LE MINISTRE DES COMMUNICATIONS.

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.

CAUTION

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

IMPORTANT FOR LASER PRODUCTS

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

ATTENTION

 Ne bloquez pas les orifices ou les trous de ventilation.

(Si les orifices ou les trous de ventilation sont bloqués par un journal un tissu, etc., la chaleur peut ne pas être évacuée correctement de l'appareil.)

- Ne placez aucune source de flamme nue, telle qu'une bougie, sur l'appareil.
- Lors de la mise au rebut des piles, veuillez prendre en considération les problèmes de l'environnement et suivre strictement les règles et les lois locales sur la mise au rebut des piles.
- N'exposez pas cet appareil à la pluie, à l'humidité, à un égouttement ou à des éclaboussures et ne placez pas des objets remplis de liquide, tels qu'un vase, sur l'appareil.

IMPORTANT POUR PRODUITS 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:** Risque de radiations laser visible et invisible quand l'appareil est ouvert et que le système de verrouillage ne fonctionne pas ou a été mis hors service. Évitez toute exposition directe au rayon.
- 4. REPRODUCTION DE L'ÉTIQUETTE: ÉTIQUETTE DE PRÉCAUTION PLACÉE À L'INTERIEUR DE L'APPAREIL.

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

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How to read this manual

- · Operations are described by mainly using the remote control buttons. If there are the same marks on the main unit, the buttons on the main unit can also be used.
- ٠ The following marks tell you for which type of the discs the operation can be made.

VIDEO AUDIO VCD SVCD C D MP3 WMA JPEG

- The illustrations and TV screens may be different between the actual case and the description.
- "VCD" is an abbreviation of "Video CD". "SVCD" is an abbreviation of "Super Video CD".

Important cautions

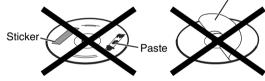
Installation of the system

- Select a place which is level, dry and neither too hot nor too cold; between 5°C and 35°C.
- Leave sufficient distance between the system and the τv
- Do not use the system in a place subject to vibration. Power cord
- Do not handle the power cord with wet hands.
- A small amount of power is always consumed while the power cord is connected to the wall outlet.
- When unplugging the power cord from the wall outlet, always pull on the plug, not the power cord.

To prevent malfunctions of the system

- There are no user-serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the system.
- Do not use any non-standard shape disc (like a heart, flower or credit card, etc.) available on the market, because it may damage the system.
- Do not use a disc with tape, stickers, or paste on it, because it may damage the system.

Label sticker



Note about copyright laws

Check the copyright laws in your country before recording from DVDs, VCDs, SVCDs, and CDs. Recording of copyrighted material may infringe copyright laws

Note about copy guard system

DVDs are protected by copy guard system. When you connect the system to your VCR directly, the copy guard system activates and the picture may not be played back correctly.

Safety precautions

Avoid moisture, water and dust

Do not place the system in moist or dusty places.

Avoid high temperatures

Do not expose the system to direct sunlight and do not place it near a heating device.

When you are away

When away on travel or for other reasons for an extended period of time, disconnect the power cord plug from the wall outlet.

Do not block the vents

Blocking the vents may damage the system.

Care of the cabinet

When cleaning the system, use a soft cloth and follow the relevant instructions on the use of chemically-coated cloths. Do not use benzene, thinner or other organic solvents including disinfectants. These may cause deformation or discoloring.

If water gets inside the system

Turn the system off and disconnect the power cord plug from the wall outlet, then call the store where you made your purchase. Using the system in this condition may cause fire or electrical shock.

When condensation or water drops adhere to the lens

In any of the following cases, condensation or water drops may adhere to the lens to prevent the system from working properly:

- Immediately after starting to heat the room
- When the system is installed in a steamy or damp space
- When the system is suddenly moved from a cold place to a warm space

In any of these cases, leave the system turned on for 1 or 2 hours before use.

Supplied accessories

Check to be sure you have all of the supplied accessories.

The number in parentheses is the quantity of the pieces supplied. If anything is missing, contact your dealer immediately.

- Remote control (1) ٠
- Batteries (2)
- FM antenna (1)
- AM loop antenna (1)
- Power cord (1)
- Composite video cord (1)
- Speaker cords (2)
- Core filter (1)

- 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 method claims of certain U.S. patents
- and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Playable disc types

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

DVD VIDEO, DVD AUDIO, VCD, SVCD, CD

- This system can also play back the following discs:
 Finalized DVD-R/-RW discs recorded in the DVD VIDEO format.
- CD-R/RW discs recorded in the following formats
- Music CDs (finalized discs)
- VCDs
- SVCDs
- MP3/WMA/JPEG discs recorded in ISO 9660 (for details, refer to "Notes on CD-R and CD-RW")

However, some discs may not be played back because of their disc characteristics, recording conditions, or damage or stain on them.

Only sounds can be played back from the following discs:

MIX-MODE CD	CD-G
CD-EXTRA	CD TEXT

Discs you can play:

Disc Type	Mark (Logo)	Video Format
DVD VIDEO		NTSC
DVD AUDIO		—
VCD		NTSC
SVCD		NTSC
CD		—
CD-R		_
CD-RW	DIGITAL AUDIO ReWritable	—

2

Licensing Corporation.

* Note on Region Code

DVD players and DVD VIDEOs have their own Region Code numbers. This system can only play back a DVD VIDEO recorded with the Region Code number and video format mentioned below.

For your available Region Code, check the rear panel of your main unit.

This system can play back only DVD VIDEOs whose Region Code numbers include "1".

Examples:



If a DVD VIDEO with an improper Region Code number is loaded, "REGION CODE ERROR!" appears on the TV screen and playback cannot start.

 On some DVD VIDEOs, DVD AUDIOs, VCDs or SVCDs, their actual operation may be different from what is explained in this manual. This is due to the disc programming and disc structure, not a malfunction of this system.

Notes on DVD-R and DVD-RW

 This system can also play finalized DVD-Rs or DVD-RWs recorded in DVD-Video format.

Notes on CD-R and CD-RW

- This system can also play CD-Rs or CD-RWs if MP3, WMA, and JPEG files are recorded on them with ISO 9660 format.
- This system supports "multi-session" discs (up to 20 sessions).
- This system cannot play "packet write" (UDF format) discs. Some discs may not be played back because of their disc characteristics, recording conditions, or damage or stain on them.

Discs that cannot be played back

 The following discs cannot be played back: DVD-ROM, DVD-RAM, DVD-R/-RW (recorded in VR format), CD-ROM, CD-I (CD-I Ready), Photo CD, SACD, etc.

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

Damaged discs and discs in an extraordinary shape (other than a disc of 12 cm or 8 cm in diameter) cannot be played back.

Caution for DualDisc playback

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

Notes on all files

- The system can only recognize and play files with one of the following extensions, which can be in any combination of upper and lower case;

- MP3: "MP3", "mp3" WMA: ".WMA", ".wma" JPEG: ".JPG", ".JPEG", ".jpg", ".jpeg"
- If a character other than single byte English characters is used in the file name of an MP3/WMA/JPEG file, the track/file name will not be displayed correctly.
- The system recognizes up to 150 tracks (files) per group, 99 groups per disc, and the total number of the tracks (files) that the system can play is 1 000.
- Some files may not be played back normally because of their disc characteristics or recording conditions.

For MP3/WMA files

- An off-the-shelf MP3 disc may be played in an order different from that indicated on the label attached to the disc.
- The system supports MP3/WMA files recorded with a bit rate of 32 - 320 kbps and a sampling frequency of 16 kHz, 22.05 kHz, 24 kHz (WMA only), 32 kHz, 44.1 kHz, or 48 kHz.
- If the tag information (album name, artist, and track title, etc.) is recorded on a disc, it appears in the file control display on the TV screen.
- We recommend to record each piece of material (song) at a sample rate of 44.1 kHz and at a data transfer rate of 128 (96 for WMA only) kbps.
- This system cannot play back files encoded with Multiple Bit Rate (MBR). (MBR is a format to encode a file content at several different bit rates.)

For JPEG files

- We recommend to record a file at 640 x 480 resolution.
- This system can play a baseline JPEG file, excluding monochromatic JPEG files.
- This system can play JPEG data taken with a digital camera conforming to the DCF (Design Rule for Camera File System) standard (when a function is applied such as the automatic rotation function of a digital camera, data goes beyond the DCF standard, so the image may not be displayed).
- If data has been processed, edited and restored with PC image editing software, the data may not be displayed.
- This system cannot play animations such as MOTION JPEG, or still images (TIFF etc.) other than JPEG, and image data with sound.
- An image with a resolution of more than 8 192 x 7 680 pixels cannot be displayed.

Disc structure

DVD VIDEO

A DVD VIDEO consists of "titles" and each title may be divided into "chapters".

Title 1		Titl	e 2	
Chapter 1	Chapter 2	Chapter 3	Chapter 1	Chapter 2

DVD AUDIO

A DVD AUDIO consists of "groups" and each group may be divided into "tracks".

Some discs include a "bonus group" that requires a password for playing (page 27).

•	Group 1		Gro	up 2
Track 1	Track 2	Track 3	Track 1	Track 2

VCD/SVCD/CD

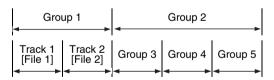
VCD, SVCD and CD consist of "tracks". In general, each track has its own track number. (On some discs, each track may also be further divided by indexes.)

Track 1	Track 2	Track 3	Track 4	Track 5
← →	← →	← →	← →	← ►

MP3/WMA [JPEG] discs

On an MP3/WMA [JPEG] disc, each still picture (material) is recorded as a track [file]. Tracks [Files] are usually grouped into a folder. Folders can also include other folders, creating hierarchical folder lavers.

This unit simplifies the hierarchical construction of a disc and manages folders by "groups".

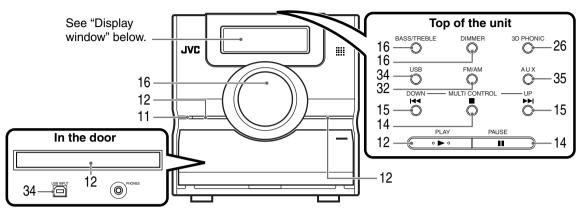


This product can recognize up to 1 000 tracks [files] in a disc. Also, the product can recognize up to 150 tracks [files] per group and up to 99 groups in a disc. Since the unit ignores the tracks [files] whose numbers are exceeding 150 and the groups whose numbers are exceeding 99, they cannot be played back.

 If there is any type of files other than MP3/WMA [JPEG] files in a folder, those files are also counted in the total file number.

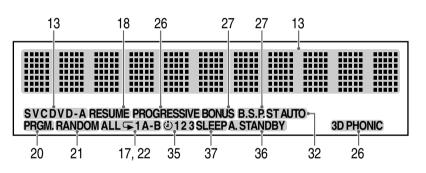
The numbers represent the page numbers.

Front panel

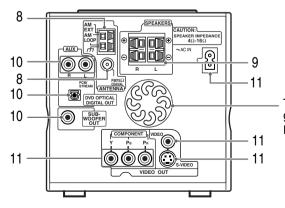


* Connect headphones (not supplied) with a stereo mini plug. If the headphones are connected, the speakers and subwoofer will not produce any sound.

Display window



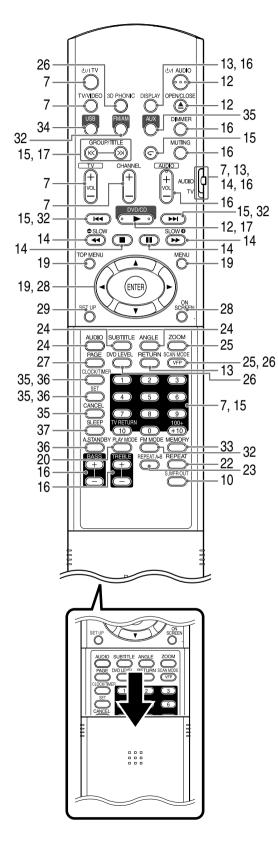
Rear panel



These holes discharge heat generated inside the unit. Do not cover up these holes.

Using the remote control

The numbers represent the page numbers.



Putting the batteries in the remote control

If the range or effectiveness of the remote control decreases, replace the batteries. Use two R6 (SUM-3)/AA(15F) type dry-cell batteries.

CAUTION

- Do not use a used battery and a new battery together.
- Do not use different types of batteries at the same time.
- Take out the batteries if the remote control is not to be used for a long time. Otherwise it may cause a leakage.

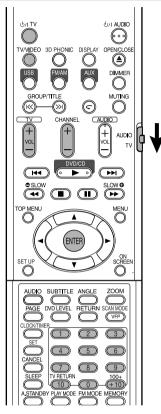
Remote control operation

When operating the remote control, point it towards the front panel of the main unit. If the remote control is operated from a direction that is extremely oblique or when there is an obstacle in the way, signals may not be transmitted.

If the remote control sensor is exposed to a strong light such as direct sunlight, correct operation may not be carried out.

This page is for when operating your TV using the remote control of this product.

Operating the TV using the remote control



Setting the manufacturer's code

1 Slide the remote control mode selector to the TV side.



2 Keep pressing down U/I TV.

NOTE

Keep pressing down ⊍/I TV until Step 4 is complete.

3 Press ENTER.

4 Press number buttons (1-9, 0).

Ex.:

For a Hitachi TV: Press 1, then 0. For a Toshiba TV: Press 0, then 8.

If there are more than one manufacturer's codes, try them in turn and select the one that causes the product to work properly.

Manufacturer	Code	Manufacturer	Code
JVC	01	Samsung	12
Hitachi	10	Sanyo	13
Magnavox	02	Sharp	06
Mitsubishi	03	Sony	07
Panasonic	04, 11	Toshiba	08
RCA	05	Zenith	09

NOTE

Manufacturer's codes may be changed without notice. You may not be able to operate a TV produced by the manufacturer shown above.

5 Release U/ITV.

For TV operation

Operate the remote control by pointing it towards the TV.

UTINU UTINU	Turn ON/OFF the power.	
CHANNEL (+)	Change channels.	
	Adjust volume.	
$\begin{array}{c} 1 \sim 9 / \\ 0 / + 1 \end{array}$		Select channels.
TV RETURN	Alternates between the previously selected channel and the current channel.	
TV/VIDEO	Switch TV and video input.	

*1 Make sure to slide the remote control mode selector to the TV side in advance.

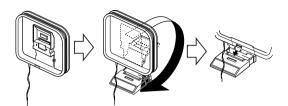
NOTE

When the batteries are replaced, perform the manufacturer's code setting again.

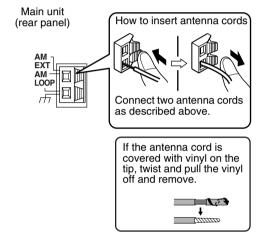
Connecting antennas

Connecting AM loop antenna (supplied)

1 Set up the AM loop antenna.



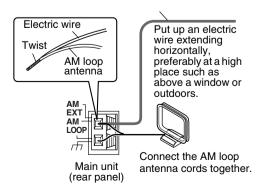
2 Connect antenna cords.



3 Turn the AM loop antenna to the direction of the best radio reception.

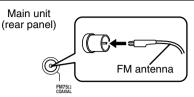
Locate the AM loop antenna as far away from the main unit as possible.

- Do not locate the AM loop antenna on a metallic table or close to a TV, personal computer, etc. Otherwise it may result in bad radio reception.
- When good radio reception cannot be obtained with the supplied AM loop antenna

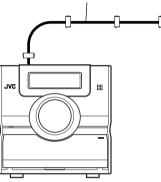


Electric wire: 3 - 5 m (commercially available)

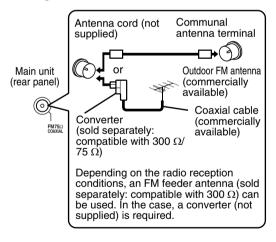
Connecting FM antenna (supplied)



Put the antenna up straight in the direction where the best radio reception can be obtained, and fix by using tape.



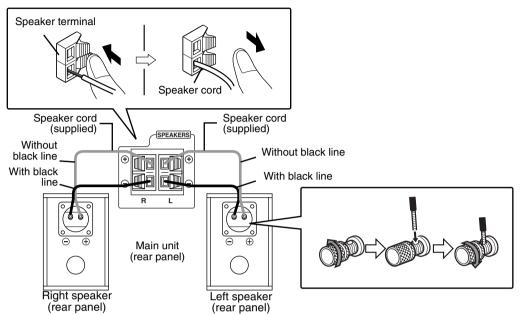
When good radio reception cannot be obtained with the supplied antenna or when using a communal antenna



For details of connecting a separately sold antenna, refer to the user guide for the antenna or converter.

Connecting speakers

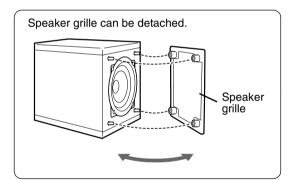
There is no difference between the left and right speakers.



CAUTION

- DO NOT connect more than one speaker to one speaker terminal.
- The speakers of this product are magnetically shielded, but color irregularities may occur on the TV depending on how the speakers are installed. Keep in mind the following.
 - 1. Turn off the main power of your TV before installing the speakers. Wait for about 30 minutes before turning on the TV again.
 - 2. If color irregularity occurs in pictures, keep a distance of more than 10 cm between the TV and the speakers.

The speakers employ natural wood for the diaphragm and the cabinet in order to reproduce the original sound faithfully. The appearance will therefore be different for each unit.



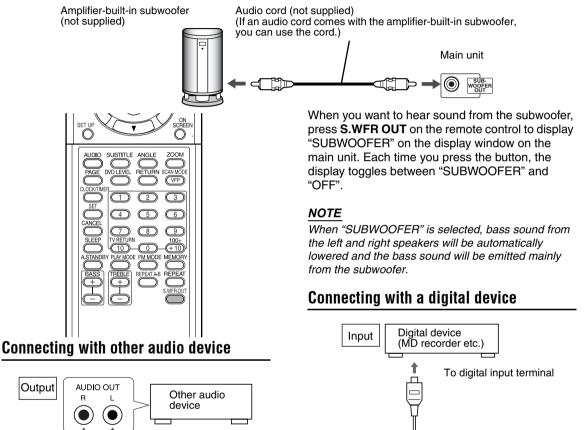
- Impedance of speaker that can be connected to the main unit is within a range of 4 Ω to 16 Ω.
- In order to have a sufficient cooling effect, leave a space of more than 1 cm between the main unit and the speakers or other objects.

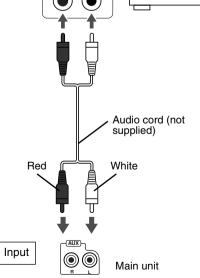
Connecting other devices

This page is for when connecting the main unit with other devices.

Connecting subwoofer

With an amplifier-built-in subwoofer (not supplied), you can enjoy a more dynamic bass sound. Refer to the manual of the subwoofer for details.





CAUTION

Output

Main unit

• For details of signals to be output, refer to page 30.

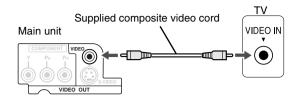
DVD OPTICAL DIGITAL OUT

Optical digital cord (not supplied)

Ø

 If connecting the main unit with equipment with the function of a Dolby Digital decoder, the setting in "D. RANGE COMPRESSION" of "AUDIO" (page 30) will be invalid regarding sound from the digital audio output of the main unit.

Connecting with TV



CAUTION

Connect the main unit directly with a TV (or a monitor) without routing through a VCR. Otherwise it may cause picture distortion while playing.

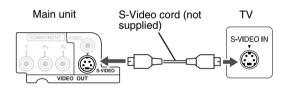


Connecting directly

Also, when connecting the main unit to a TV with a VCR built in, there may be picture distortion while playing.

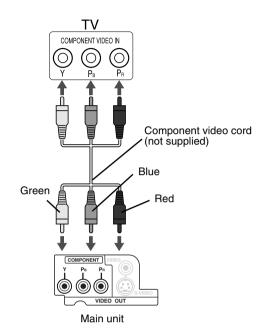
You can enjoy pictures of better quality using the following cord instead of the supplied video cord.

Connecting by using the S-Video cord



Connecting by using the component video cord

You can enjoy better quality pictures than when using the S-Video cord.



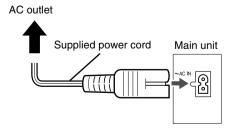
CAUTION

Use one of either the S-Video cord or the component video cord. If both cords are used, pictures may not be played properly.

NOTE

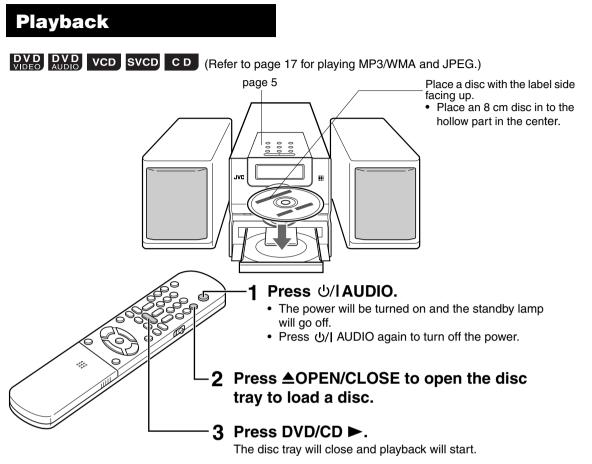
- In order to enjoy pictures with Progressive mode (page 26), the TV is required to have Progressive video input.
- If the component video input jacks of your TV are BNC type, use a plug adapter (not supplied) to convert the plugs.

Connecting the power cord



- Connect the power cord after all other connections are complete.
- The standby lamp (on the front panel) will be lit.

Playing discs

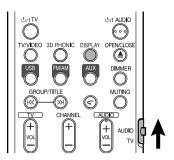


 The power will be turned on when any of PLAY
 ▶, USB, FM/AM, AUX, or ▲ on the main unit and DVD/CD ▶, USB, FM/AM, AUX, or ▲OPEN/ CLOSE on the remote control is pressed while the power is off.

If any button other than \triangleq or \triangleq OPEN/CLOSE is pressed, the source will also be changed (if there is a disc loaded, playback will start).

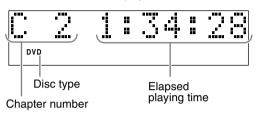
- A menu screen may be displayed on the TV after starting playback of a DVD/VCD/SVCD. In this case, select a desired item to playback by using the following buttons on the remote control.
 - Select a desired item using cursor ▲/▼/◄/► and press ENTER.
 - Select a desired item using the number buttons.
- Depending on the disc, actual operation may be different from the description.

JVC		
	creens displayed on the TV when the power is turned ON.	
The (Wr	following messages appear depending on the status of the system. In FM, AM, USB or AUX is selected as a source, the messages do not appear.)	
NOW READING	Appears when the system is reading the disc information. Wait for a while.	
REGION CODE ERROR!	ODE Appears when the Region Code of the DVD VIDEO does not match the code the system supports. (page 3)	
NO DISC	Appears when no disc is loaded.	
OPEN	Appears when opening the disc tray.	
CLOSE	Appears when closing the disc tray.	
CANNOT PLAY THIS DISC	Appears when trying to play back an unplayable disc.	



Display window during disc playback

Ex.: When a DVD VIDEO is played



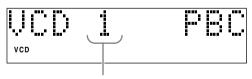
Ex.: When a DVD AUDIO is played



Track number

If "BONUS" or "B.S.P." is displayed during a DVD AUDIO playback, refer to page 27.

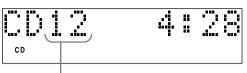
Ex.: When an SVCD or VCD is played



Track number

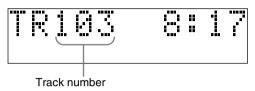
- When playing an SVCD, the SVCD indicator lights instead of the VCD indicator.
- PBC (Play Back Control): A signal recorded in a VCD (version 2.0) for controlling playback. It is possible to enjoy interactive software or software with a search function using a menu screen recorded in a PBC compatible VCD. To play a disc with the PBC function OFF, carry out the following operations.
 - Designate the track number using the number buttons while the disc is stopped.
 - Designate the track number using ►►I while the disc is stopped, and then press DVD/CD ►.
- Press **RETURN** to go back to the upper layer during the PBC playback of a VCD or SVCD.

Ex.: When a CD is played



Track number

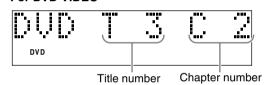
Ex.: When an MP3/WMA file is played



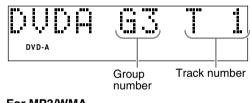
To switch the display

Press DISPLAY.

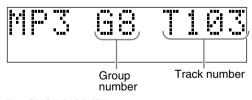
Each time you press the button, the display indication changes temporarily as follows: • For DVD VIDEO



• For DVD AUDIO

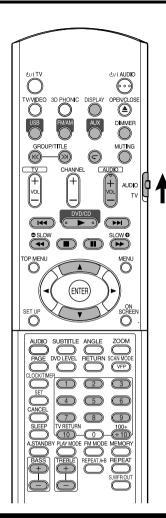


For MP3/WMA



- For SVCD/VCD/CD The clock time indication appears on the display window.
 - Before setting the clock (page 35), "AM 12:00" appears.
- When the unit is turned off, pressing **DISPLAY** turns off the clock indication to save the power consumption.

Playing discs (continued)



Select what you want to play by using the number buttons

DVD DVD VCD SVCD C D MP3 JPEG

NOTE

- Set the remote control mode selector to AUDIO before using the number buttons.
- For a VCD or SVCD, this operation can be carried out when the disc is stopped, or during playback without the PBC function.
- For a DVD AUDIO, CD, MP3/WMA or JPEG, this operation can also be carried out when the disc is stopped.
- This operation may not be carried out for some discs.

Designate the chapter number or track number to play during playback.

• Refer to "How to use the number buttons" on page 15.

To stop playback

DVD DVD VCD SVCD C D MP3 WMA JPEG

Press ■ during playback.

To pause playback

DVD DVD VCD SVCD C D MP3 JPEG

Press II during playback.

To start normal playback again, press DVD/CD ►.

• For JPEG slide-show, pressing DVD/CD ► starts playback from the next file.

To advance picture frame-by-frame

DVD VIDEO SVCD VCD

Press II during pause.

• Each time you press the button, picture will be advanced frame-by-frame.

Fast reverse/Fast forward search

DVD
VIDEODVD
AUDIOVCDSVCDC

Press ◄◄ or ►► during playback.

 Each time you press the button, the speed increases (×2, ×5, ×10, ×20, ×60). To restore the normal speed, press DVD/CD ►.

- Fast reverse/Fast forward search cannot be carried out for MP3, WMA, and JPEG.
- For a DVD VIDEO, VCD or SVCD, no sound comes out during Fast reverse/Fast forward search.
- For a CD or DVD AUDIO, sound is intermittent during Fast reverse/Fast forward search.

Playing back from a position 10 seconds before (One Touch Replay)

DVD VIDEO

Press ⊂ during playback.

NOTE

- This operation may not be carried out for some discs.
- It is not possible to go back to the previous title.

Slow Motion Playback

VIDEO VCD SVCD

- Each time you press the button, the playback speed increases ($\times 1/32$, $\times 1/16$, $\times 1/8$, $\times 1/4$, $\times 1/2$).
- Press DVD/CD ► to start normal playback again.

NOTE

- No sound will be produced.
- The picture motion in the reverse direction may not be smooth.
- For a VCD or SVCD, Slow Motion Playback can be carried out in the forward direction only.

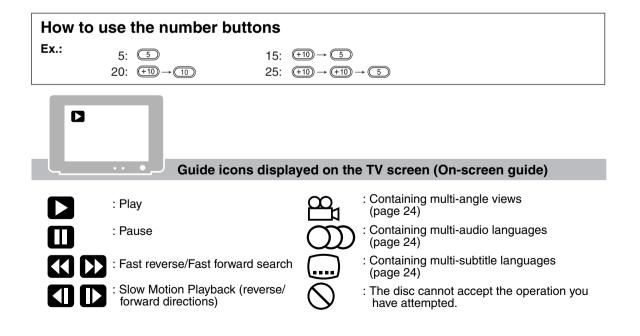
Skip to the beginning of the selection

DVD
VIDEODVD
AUDIOVCDSVCDC DMP3
WMAJPEG

Press I or ►►I during playback*.

- Press ►►I to skip the next chapter or track.
- Press I < once to skip back to the beginning of the chapter or track currently being played (except for JPEG).
- Press GROUP/TITLE (<
 or >>> to select the title or group.
- During playback of a JPEG disc, press ►►I or cursor ▼ to play the next file, or press I◄◄ or cursor ▲ to play the previous file.

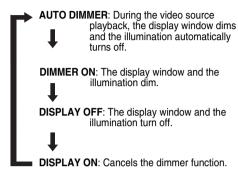
- * For a VCD or SVCD, this operation can be carried out during playback without the PBC function.
- Except for a DVD VIDEO, this operation can also be carried out while the disc is stopped.
- This operation may not be carried out for some discs.



To change the brightness of the display window (DIMMER)

Press DIMMER repeatedly.

• Each time you press the button, the dimmer mode changes as follows:



• When the unit is turned off, pressing **DISPLAY** turns off the clock indication to save the power consumption.

The items above can be carried out for all sources.

Adjusting the volume

Press AUDIO VOL +/-.

NOTE

The volume can be also adjusted by turning the VOLUME control on the main unit.

Adjusting sound quality

Bass: Press BASS +/-.

Treble: Press TREBLE +/-.

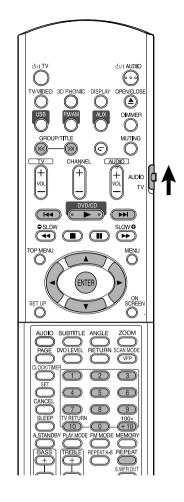
• Adjustable range: -5 to +5

Turning off the sound temporarily (MUTING)

Press MUTING.

- No sound will come out from the speakers, headphones and the subwoofer.
- Press **MUTING** again to restore the sound. When the power is turned off once and turned on again, the sound will be restored.

Playing audio/video files



NOTE

Set the remote control mode selector to **AUDIO** before using the number buttons.



English

Playback

MP3 WMA JPEG

Display of an MP3/WMA disc is described here as an example.

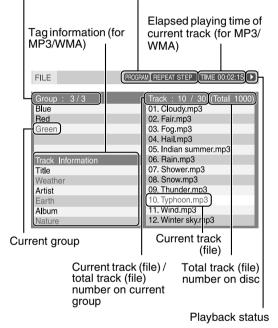
For a JPEG disc, read "track" as "file".

NOTE

When playing a disc containing both MP3/WMA and JPEG files, set one of them to be played, then turn on the system again (page 29).

1 Load a disc.

Current group /total group number Playback mode (PROGRAM, RANDOM, REPEAT)



- 2 Press cursor ▲/▼ to select a group.
- **3** Press cursor ► to move to the track list.
- 4 Press cursor ▲/▼ to select a track.

Slide-Show Playback JPEG

- In Step **5**, for a JPEG disc, when **DVD/CD** ► is pressed, files will be continuously played from the selected file (Slide-Show Playback), and when **ENTER** is pressed, only a selected file will be played.
- Display time for a file in Slide-Show Playback is about 3 seconds.
- When all files are played through, the playback will be automatically stopped.

5 Press DVD/CD \blacktriangleright or ENTER.

NOTE

- GROUP/TITLE KK, >>> can also be used in Step 2.
- The number buttons can also be used in Step 4. In this case, Step 5 is not needed. (For how to use the number buttons, refer to page 15.)
- Idd or ►►I can also be used in Step 4. In this case, Step 5 is not needed.

Repeat playback

MP3 WMA JPEG

1 Press REPEAT.

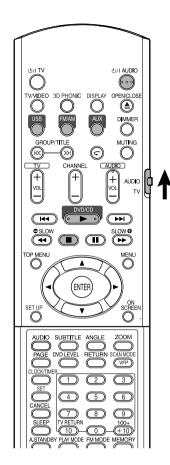
• Each time you press the button, the Repeat mode and its indication change as follows:

Repeat items	On the TV	On the display window	
Current track (MP3/WMA only)	REPEAT TRACK	REP TRK C1	
Current group	REPEAT GROUP	REP GRP C	
Entire disc	REPEAT ALL	REP ALL	
Cancel	No indication	REP OFF	
Current track during Program/ Random play (MP3/WMA only)	REPEAT STEP	REP STEP G1	
All tracks during Program/Random play (MP3/WMA only)	REPEAT ALL	REP ALL	

2 Press DVD/CD ►.

- The Repeat types can be changed during playback.
- The Repeat mode will be automatically canceled if there is a file that cannot be played (page 3).

Resume Playback



NOTE

Set the remote control mode selector to **AUDIO** before using the number buttons.



DVD DVD AUDIO VCD SVCD

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. The RESUME indicator lights on the display window when you stop playback.

How to suspend playback

Perform any of the following operations during playback.

Press ■ once.*

Press U/I AUDIO to turn off the power.

Change the source to USB, FM, AM or AUX.*

* Even if the power is turned off by pressing U/I AUDIO after this, the position where playback has been stopped will be stored.

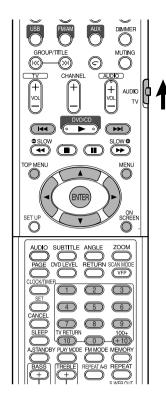


To start playback from the stored position

Press DVD/CD ►.

- This function does not work in Program Playback or Random Playback.
- The position where playback starts again may be a little different from the stopped position.
- When a disc menu is displayed, the Resume function may not work.
- The audio language, the subtitle language and the angle at that time are stored as well as the stopped position.
- The stored position will be cleared if the disc tray is opened. Further, if ■ is pressed during playback, "RESUME" will be displayed. If ■ is pressed again, the stored information will be cleared.
- At the time of purchase, Resume is set to ON. Resume can be set to OFF (page 30).

Select the scene to be played



NOTE

Set the remote control mode selector to **AUDIO** before using the number buttons.

Select the scene from the menu

VIDEO AUDIO VCD SVCD

- **1** Press MENU or TOP MENU while the disc is stopped or during playback^{*1}.
 - The disc menu screen will be displayed.
 - Only **TOP MENU** can be used for DVD AUDIOs.
- 2 Press cursor ▲/▼/◀/► (only for a DVD VIDEO or DVD AUDIO) or the number buttons to select the scene to be played.
 - Refer to "How to use the number buttons" (page 15).
 - When the menu screen has a couple of pages, press I ◄◄ or ►►I to change the page (only for a VCD and SVCD).

3 Press ENTER.

NOTE

- *1 For a VCD and SVCD, this operation can be carried out only when the PBC function is off.
- This operation cannot be carried out for a disc without a menu screen.
- Playback may start for some discs without pressing **ENTER**.

Designate the time (Time search)

VIDEO AUDIO VCD SVCD C D

1 Press ON SCREEN twice during playback^{*2}.

The menu bar will be displayed (page 28).

- 2 Press cursor ◄ /► to select
 () ← to select
- **3** Press ENTER.

4 Input the time^{*3} using the number buttons (1-9, 0).

Ex.: When you want to play a DVD VIDEO from the position of (0 hour) 23 minutes 45 seconds, press the buttons in the order:

 $\bigcirc \rightarrow \bigcirc 2 \rightarrow \bigcirc 3 \rightarrow 4 \rightarrow \bigcirc 5$

If you input wrong numbers, press cursor

 to delete the numbers and re-input.

5 Press ENTER.

To delete the menu bar, press ON SCREEN.

- This function does not work for a DVD VIDEO with no time information recorded.
- This function does not work during Program or Random Playback.
- *2 For a VCD and an SVCD, the operation can be carried out when the disc is stopped or during playback without the PBC function.
- *³ Time search for a DVD VIDEO is from the beginning of the title, for a DVD AUDIO from the beginning of the track being played. Time search for a VCD, an SVCD and a CD is as follows:
 - When the disc is stopped, time search is from the beginning of the disc.
 - When the disc is being played, time search is within the track currently being played.



Program Playback/Random Playback

ত/i TV ப்∕। AUD**I**O \odot OPENICLOSE DIMMER \bigcirc MUTING CHANNEL + voi (+ AUDIO тν **••** SLOW O MENU ENTER SETUF Ô (VFP) 9 10

VIDEO AUDIO VCD SVCD C D WMA

NOTE

Set the remote control mode selector to **AUDIO** before using the number buttons.



Play the disc in the desired order (Program Playback)

It is possible to program a maximum of 99 chapters or tracks. The same chapter or track can be programmed more than once.

While the disc is stopped, press PLAY MODE repeatedly to display "PROGRAM" on the display window on the main unit.

		TV sc	reen	
PROGRAM	7	1100		
No.	Group / Title	Track / Chapter		
1]	
2			j	
3]	
4]	
5]	
6] —	–Program
7]	screen
8]	

2 Create a program following the description on the TV screen.

Refer to "How to use the number buttons" (page 15).

- The input content varies depending on the disc type.
 - DVD VIDEO: Titles and chapters
 - VCD, SVCD, CD: Tracks
 - DVD AUDIO, MP3/WMA:
 - Groups and tracks
- To select a DVD AUDIO bonus group, carry out the operations of "Playing the Bonus Group" on page 27 in advance to erase the display "BONUS".
- If the input number of chapters or tracks is greater than 99, "MEM FULL" will be displayed.
- In the case of a VCD, SVCD or CD, when the total playback time reaches 9 hours 59 minutes 59 seconds, "--:--" will be displayed on the display window (it is possible to continue programming).

To program on the display window on the main unit, operate as follows:

- (1) Select a title/group using the number buttons.
- (2) Designate a chapter/track number using the number buttons.
 - Refer to "How to use the number buttons" (page 15).
 - The program number will be displayed on the lower display window (Ex.: "P2").
- (3) Repeat the above operations (1) and (2) to complete the program. Then, advance to Step 3.

NOTE

- The group/title number flashes on the display window after making each program step.
- Only for a DVD VIDEO, DVD AUDIO, VCD, or an MP3/WMA: If you press ENTER instead of designating a track/chapter number, "ALL" is displayed and all of the tracks/chapters in the selected group/title are programmed.

3 Press DVD/CD ►.

- To resume normal playback, press **PLAY MODE** repeatedly to show the playback indication on the display window on the main unit while the disc is stopped. The program content will not be erased.
- The following operations erase the program content:
 - Press **CANCEL** repeatedly (Programs will be erased one by one)
 - Press while the disc is stopped
 - Open the disc tray
 - Turn off the power

Playing the disc in a random order (Random Playback)

- Press PLAY MODE repeatedly to display "RANDOM" on the display window on the main unit while the disc is stopped.
 - "RANDOM" will also be displayed on the TV screen.

2 Press DVD/CD ►.

- The same chapter or track will not be played twice.
- To resume normal playback, press PLAY MODE repeatedly to show the playback indication on the display window on the main unit while the disc is stopped.
- Random Playback will also be canceled by carrying out the following operations:
 - Open the disc tray
 - Turn off the power
- The previous track will not be returned to even if I ret is pressed repeatedly during Random Playback (the beginning of the current chapter or track will be returned to).

Repeat Playback

Refer to page 17 for Repeat Playback of MP3 and JPEG files. AUDIO + VOL AUDIO þ τν **>>** SLOW C (\mathbf{H}) OP MENU MENI \cap C SET Ĉ ZOOM VEP 100-

Playing the title/chapter/ group/track/all tracks repeatedly (REPEAT)

VIDEO AUDIO VCD SVCD CD

Press REPEAT during playback.

• Each time you press the button, the Repeat mode and its indication change as follows:

For DVD VIDEO

Repeat items	On the TV	On the display window
Current chapter	СНАР	REP CHAP C1
Current title	TITLE	REP TTL
Cancel	C)OFF	REP OFF

For DVD AUDIO

Repeat items	On the TV	On the display window
Current track	TRACK	REP TRK G1
Current group	GROUP	REP GRP
Cancel	OFF	REP OFF

For CD/VCD/SVCD

Repeat items	On the TV	On the display window
Current track	TRACK	REP TRK G1
All tracks	► ALL	REP ALL
Cancel	C)OFF	REP OFF

NOTE

- For a VCD and SVCD, the operation can be carried out only when the disc is stopped or during playback without the PBC function.
- It is possible to set Repeat mode on the menu bar. For how to operate, refer to "Playing the designated part repeatedly (A-B Repeat Playback)" (page 23).
- For a DVD VIDEO and DVD AUDIO, if the source is switched to FM, AM, USB or AUX, the Repeat mode will be canceled.

Repeat Playback during Program or Random Playback

Repeat items	On the TV	On the display window
Current chapter/ track	CISTEP or REPEAT STEP	REP STEP G1
All tracks during Program/Random play	CALL or REPEAT ALL	REP ALL
Cancel	OFF or no indication	REP OFF

Playing the designated part repeatedly (A-B Repeat Playback)

DVD DVD VCD SVCD CD

1 Press ON SCREEN twice during playback.

The menu bar (page 28) will be displayed.

- 2 Press cursor ◄/► to select
- **3** Press ENTER.

4 Press cursor ▲/▼ to display

A-B

Other Repeat modes can be selected here. For other Repeat modes, refer to "Playing the title/chapter/group/track/all tracks repeatedly (REPEAT)" (page 22).

5 Press ENTER at the start point of the part to be repeated (designating A point).

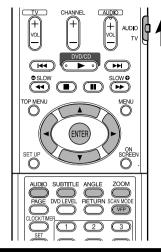
• The icon on the menu bar will be ____.

6 Press ENTER at the end point of the part to be repeated (designating B point).

- The icon on the menu bar will be and the part between A and B points will be played repeatedly.
- A-B Repeat Playback will be canceled by carrying out the following operations:
 - Press ■.
 - Select and press ENTER twice.

- A-B Repeat Playback is possible only within the same title or track. A-B Repeat Playback cannot be carried out during PBC playback, Program Playback, Random Playback and Repeat Playback.
- You can do the A-B Repeat Playback using the **REPEAT A-B** button on the remote control.

Other convenient functions



Selecting the subtitles

DVD SVCD DVD

(only for moving image)

 Press SUBTITLE during playback of a disc containing subtitles in several languages.

(....) 1/4

Ex.:



• Each time you press the button, the subtitle will be alternated between ON and OFF.

ENGLISH

2 Press cursor ▲/▼ to select a subtitle language.

- For a language code such as "AA", refer to "Language codes" (page 39).
- The manner of displaying subtitle languages may be different depending on the disc.

3 Wait for a few seconds or press ENTER to go off the window.

NOTE

- It is also possible to operate by using the menu bar (page 28).
- For an SVCD, each time you press **SUBTITLE** in Step **1**, the subtitle type and OFF will be alternated.

Selecting the audio language

VIDEO AUDIO VCD SVCD

Press AUDIO during playback of a disc containing several audio languages.

Ex.:

TV screen

- Each time you press the button, the audio language will be alternated. Also, the audio language can be changed by pressing cursor ▲/▼.
- For a language code such as "AA", refer to "Language codes" (page 39).
- "ST", "L" and "R" displayed when playing a VCD or SVCD respectively represent "Stereo", "Left sound" and "Right sound".

2 Wait for a few seconds or press ENTER to go off the window.

NOTE

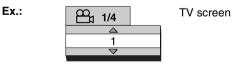
It is also possible to operate by using the menu bar (page 28).

Selecting a view angle

DVD DVD VIDEO AUDIO

(only for moving image)

1 Press ANGLE during playback of a scene containing multi-view angles.



• Each time you press the button, the angle will be alternated. Also, the angle can be changed by pressing cursor ▲/▼.

2 Wait for a few seconds or press ENTER to go off the window.

NOTE

It is also possible to operate by using the menu bar (page 28).

Enlarging the picture (ZOOM)

DVD
VIDEOVCDSVCDDVD
AUDIOJPEG

(only for moving image)

- **1** Press ZOOM during playback or while paused.
 - Each time you press the button, the picture magnification will be changed.
 - (For a JPEG) You cannot change the picture magnification during slide-show playback.
- 2 Select the portion you want to see by using cursor A/V/A/>.
 - To resume normal playback, select "ZOOM OFF" in Step 1.

Adjusting the picture quality (VFP)

DVD
VIDEODVD
AUDIOVCDSVCDJPEG

1 Press VFP during playback or while paused.

The current setting will be displayed on the TV screen.

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

- **GAMMA:** Adjust this if the neutral color is bright or dark. The brightness of dark and bright portion is maintained.
- **BRIGHTNESS:** Adjust this if the picture is bright or dark on the whole.
- **CONTRAST:** Adjust this if the far and near position is unnatural.
- **SATURATION:** Adjust this if the picture is whitish or blackish.
- **TINT:** Adjust this if the appearance of flesh tone is unnatural.
- SHARPNESS: Adjust this if the picture is indistinct.

2 Press cursor ◄/► to select VFP mode.

- It is recommended to select "NORMAL" usually, or "CINEMA" in a dark room. When either "NORMAL" or "CINEMA" is selected, go to Step 7.
- When either "USER 1" or "USER 2" is selected, the adjustment can be carried out in detail in the operations after Step **3**.

3 Press cursor ▲/▼ to select an item to be adjusted.

4 Press ENTER.

Ex.:		TV screen
	GAMMA	

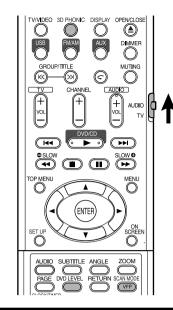
- **5** Press cursor $\blacktriangle/\checkmark$ to change the value.
- 6 Press ENTER.

To adjust other items, go back to Step 3.

7 Press VFP to go off the window.

NOTE

- If no operation is made for several seconds during the procedure, the settings made so far will be automatically stored.
- "VFP" is an abbreviation of "Video Fine Processor".

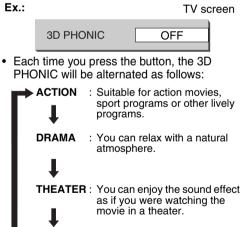


Creating realistic sound (3D PHONIC)

DVD DVD VCD SVCD C D MP3

The two speakers produce an effect resembling surround-sound.

Press 3D PHONIC during playback.



: Cancels 3D PHONIC (initial setting).

 While 3D PHONIC is activated, "3D PHONIC" appears and the 3D PHONIC indicator lights on the display window.

NOTE

OFF

- 3D PHONIC is effective for the speakers and headphones.
- When noise is produced or sound is distorted, set 3D PHONIC to "OFF".
- You cannot operate some DVD AUDIO discs.

Adjusting playback level (DVD LEVEL)

DVD VIDEO

The audio of a DVD VIDEO may be recorded at a lower level (volume) than for other types of disc. If the difference is not to your liking, adjust the DVD Level.

1 Press DVD LEVEL during playback.

- Each time you press the button, the level will be alternated among "NORMAL", "MIDDLE" and "HIGH".
- Select the level while listening to the sound played.

NOTE

- DVD Level is effective only for playback of a DVD VIDEO.
- Even if the DVD Level is changed, the output level from the digital audio output terminal will not be changed.

Enjoying better pictures (SCAN MODE)

In the Progressive mode, better pictures can be enjoyed.

CAUTION

- In order to enjoy pictures in the Progressive mode, the following requirements should be met:
 - There must be a component video input terminal on the TV set connected to the main unit.
 - The main unit and the TV set must be connected using a component video cord (page 11).

When the above requirements are not satisfied, leave the main unit in the Interlace mode. If the Progressive mode is set, pictures may be distorted.

Press and hold SCAN MODE for 4 seconds when there is no disc loaded or while the disc is stopped.

• Each time you press and hold the button, the scan mode alternates between the "PROGRESSIVE" mode and the "INTERLACE" mode.

NOTE

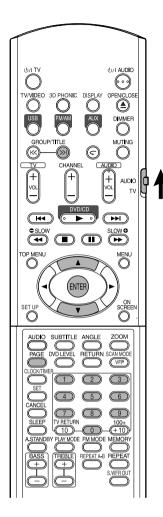
Progressive mode:

All scanned lines will be displayed at once. Pictures of higher resolution than those in the Interlace mode can be realized.

Interlace mode:

This is a conventional image method. Half of the scanned lines displayed in the Progressive mode will appear, alternating with the other half.

DVD AUDIO



NOTE

Set the remote control mode selector to **AUDIO** before using the number buttons.



Playing the Bonus Group

There are some DVD AUDIO discs with a special group, called "Bonus Group", recorded.

NOTE

This operation can be carried out when "BONUS" is lit on the display window on the main unit.

Press GROUP/TITLE ≫ repeatedly during playback to select a bonus group.

"KEY____" appears on the TV screen, and on the display window on the main unit.

• The bonus group is usually recorded as the last group.

2 Press the number buttons to enter a pin code (4 digits).

The method of getting a pin code may be different depending on the disc.

3 Press ENTER.

- When a correct pin code is entered, "BONUS" disappears and the playback of the bonus group starts.
- If an incorrect pin code is entered, try entering a correct pin code again.

Browsable Still Pictures (B.S.P.)

There are some DVD AUDIO discs with still pictures recorded. Among the still pictures, there are pictures called B.S.P. (Browsable Still Pictures). With these pictures, it is possible to switch a picture as if turning over pages.

NOTE

Ex.:

This operation can be carried out when "B.S.P." is lit on the display window on the main unit.

Press PAGE during playback.

Each time you press the button, the still picture will be switched over. It is also possible to switch the picture using cursor \blacktriangle/∇ .

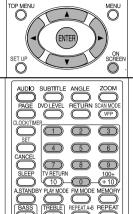
TV screen

PAGE 1/2

2 Wait for a few seconds or press ENTER to go off the window.

Using the menu bar

VIDEO AUDIO VCD SVCD CD



NOTE

- Set the remote control mode selector to AUDIO before using the number buttons.
- This operation can be carried out when there is a disc loaded. There are some functions that may not work while the disc is stopped.

1 Press ON SCREEN twice.

The status bar and the menu bar will appear on the TV screen.

DVD-VIDEO	8.5Mbps	TITLE 33 CHAP 33	TOTAL 1:25:58
		→ ① 1/3 … 1/	5 💾 1/3

Menu bar

The above is an example for a DVD VIDEO.

2 Press cursor ◄/► to select an item to be operated.

3 Press ENTER.

- The selected function can be set. For the setting content, refer to the following "Functions list".
- The currently active function shows.
- To delete the menu bar, press **ON SCREEN**.

Functions list

For the functions with no special description for the operations, press cursor \blacktriangle/\lor to select, and press **ENTER** to determine.

TIME Time display selection	Select this to change time information displayed on the display window on the main unit and the status bar. Each time ENTER is pressed, the display will be alternated. DVD VIDEO/DVD AUDIO (operating during playback) TOTAL: Elapsed playing time of current title/group. TIRE : Elapsed playing time of current title/group. TIME : Elapsed playing time of current track. CD (operating during playback)/VCD/SVCD SVCD TIME : Elapsed playing time of current track. TOTAL : Elapsed playing time of current track. TO coperating during time of current track. TOTAL : Elapsed playing time of current track. TOTAL : TIME : Elapsed playing time of current track. TOTAL : Elapsed playing time of disc. TARM : Remaining time of disc.
C Repeat mode	See page 22.
→ Time search	See page 19.
CHAP. / TRACK / Chapter search (DVD VIDEO)/Track search (DVD AUDIO)	Select a chapter/track. Press the number buttons to input the chapter/track number and press ENTER . Ex.: 5: 5 24: $2 \rightarrow 4$
Audio language/ Audio (DVD VIDEO/ DVD AUDIO/VCD/ SVCD)	See page 24.
Subtitle language (DVD VIDEO/SVCD)	See page 24.
View angle (DVD VIDEO/DVD AUDIO)	See page 24.
PAGE Page switch (DVD AUDIO)	Switch the still pictures (B.S.P.) recorded on a DVD AUDIO disc (page 27).

Information displayed on the status bar

DVD VIDEO/DVD AUDIO (the example below is for a DVD VIDEO)

DVD-VIDEO 8.5Mbps	TITLE 33 CHAP 33 TOTAL 1:25:58
Transfer rate (only for DVD VIDEO) DVD VIDEO: Current title number DVD AUDIO: Current group number	DVD VIDEO: Current chapter number DVD AUDIO: Current track number

VCD/SVCD/CD (the example below is for a CD)

CD	RANDOM	TRACK 33 TIME 0:25:58
	l Playback mode	Time Playback status

Current track number

Preferences

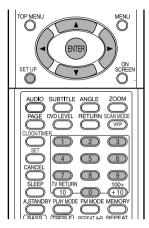
Advanced operations

English

NOTE

The playback status mark has the same meaning of the mark on the On-screen guide (page 15).





The initial settings of the system can be changed according to the environment the system is used in.

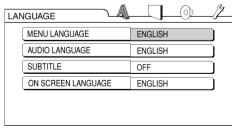
NOTE

- Set the remote control mode selector to AUDIO before using the number buttons.
- The top and bottom of the preference screen may not be displayed on a wide TV. Adjust the picture size on the TV.

Basic operations

Press SET UP while the disc is stopped or no disc is loaded ("NO DISC" is displayed).

• The following screen will be displayed on the TV.



• Proceed with operations by following the description on the TV screen.



NOTE

• If the selected language is not recorded on the disc, the optimum language set for the disc will be displayed. • For a language code such as "AA", refer to the "Language codes" (page 39).

Items	Contents
MENU LANGUAGE	Select the language for the DVD VIDEO menu.
AUDIO LANGUAGE	Select the audio language for the DVD VIDEO.
SUBTITLE	Select the subtitle language for the DVD VIDEO.
ON SCREEN LANGUAGE	Select the language displayed on the preference screens.

PICTURE

Items	Contents (: initial setting)
MONITOR TYPE	Select a display method suitable for your TV. 16 : 9: Select this when the aspect ratio of your wide TV is fixed to 16:9 (when playing a DVD VIDEO recorded at 4:3, the system automatically adjusts the screen width of the output signal). 4 : 3 LB (Letter Box) : Select this when the aspect ratio of your TV is conventional 4:3. While viewing a wide screen picture, the black bars appear on the top and bottom of the screen. 4 : 3 PS (Pan Scan): Select this when the aspect ratio of your TV is conventional 4:3. While viewing a wide screen picture, the left and right edges of the picture will not be shown on the screen. (If the disc is not compatible with Pan Scan, the picture will be displayed at the Letter Box ratio.)
PICTURE SOURCE	Select an item suitable to the video source. AUTO: The video source type (a video or film) is automatically selected. FILM: Select this item when you want to view a film or video recorded with the progressive scan method. VIDEO: Select this item when you want to view a normal video.
SCREEN SAVER	Select the Screen Saver mode between ON / OFF (Screen Saver activates when there is no operation made for about 5 minutes since a still picture was last displayed).
FILE TYPE	If there are both MP3/WMA and JPEG files on a disc, you can select which files to play. AUDIO : Select this item when you want to play back MP3/WMA files. STILL PICTURE: Select this item when you want to play back JPEG files.

Items	Contents (: initial setting)
DIGITAL AUDIO OUTPUT	Select an output signal type from the following in accordance with the device connected to the digital audio output terminal (AV amplifier, etc.). (See the list below for the preference items and output signal.)
	PCM ONLY: Device corresponding only to linear PCM.
	DOLBY DIGITAL/PCM: Dolby digital decoder or a device having the same function.
	STREAM/PCM : DTS/Dolby digital decoder or a device having the same function.
DOWN MIX	Switch signal from the digital output terminal of the DVD VIDEO according to the connected device. Select this when Digital Audio Output is set to "PCM ONLY".
	DOLBY SURROUND: A Dolby Pro Logic decoder-built-in device.
	STEREO : An ordinary device.
	When 3D PHONIC is activated, Down Mix does not work.
D (Dynamic). RANGE COMPRESSION	To make adjustments for the difference between a high volume and a low volume when playing back with low volume (only for a DVD recorded with Dolby digital).
	AUTO : D. Range Compression automatically works.
	ON: D. Range Compression always works.



Items	Contents (: initial setting)
RESUME	Select ON /OFF. (page 18)
ON SCREEN GUIDE	Select ON /OFF. (page 15)
PARENTAL LOCK	Set the Parental Lock function to cut off violent scenes or replace the scenes with others. (This is effective only for discs equipped with the Parental Lock function.)
	COUNTRY CODE (page 31): Select your country.
	SET LEVEL: The restriction is stricter as the number becomes smaller. "NONE" is no restriction.
	PASSWORD (essential): Enter four-digit number as your password using the number buttons (1-9, 0) every time. (Enter "8888" if you forget your password.) The password is required at the time of playback.
	 If you enter a wrong password three times, "EXIT" will be automatically selected.

List of relationships of DIGITAL AUDIO OUTPUT preference items and output signal

Playback disc	DIGITAL AUDIO OUTPUT		
Flayback disc	STREAM/PCM	DOLBY DIGITAL/PCM	PCM ONLY
48 kHz, 16/20/24 bits Linear PCM DVD VIDEO 96 kHz linear PCM DVD VIDEO	48	kHz, 16 bits stereo linear P	CM
48/96/192 kHz, 16/20/24 bits linear PCM DVD AUDIO			
44.1/88.2/176.4 kHz, 16/20/24 bits linear PCM DVD AUDIO	44.1 kHz, 16 bits stereo linear PCM		
DTS DVD VIDEO	DTS bit stream	48 kHz, 16 bits s	tereo linear PCM
DOLBY DIGITAL DVD VIDEO/ DVD AUDIO	DOLBY DIGIT	TAL bit stream	48 kHz, 16 bits stereo linear PCM
CD/VCD/SVCD	44.1 kHz, 16 bits	stereo linear PCM/48kHz, *	16 bits linear PCM
DTS CD	DTS bit stream	44.1 kHz, 16 t	oits linear PCM
MP3/WMA disc	32/44.1	/48 kHz, 16 bits stereo line	ar PCM

NOTE

• For a DVD VIDEO: There is a 20 bit or 24 bit output for DVD VIDEO without content protection set.

• For a DVD AUDIO: There is no output for DVD AUDIO with content protection set.

Country/Area codes

Advanced operations

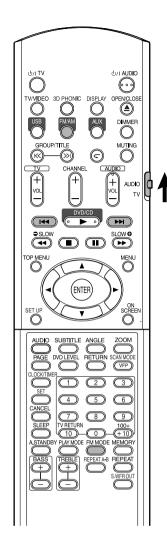
AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
AN	Netherlands Antilles
AO	Angola
AQ	Antarctica
AR	Argentina
AS	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AZ	Azerbaijan
BA	Bosnia and
	Herzegovina
BB	Barbados
BD	Bangladesh
BE	Belgium
BF	Burkina Faso
BG	Bulgaria
BH	Bahrain
BI	Burundi
BJ	Benin
BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia
BR	Brazil
BS	Bahamas
BT	Bhutan Bauwat Jaland
BV	Bouvet Island
BW	Botswana
BY	Belarus
BZ	Belize
CA	Canada
CC	Cocos (Keeling)
	Islands
CF	Central African
	Republic
CG	Congo
СН	Congo Switzerland
CH CI	Congo Switzerland Côte d'Ivoire
CH CI CK	Congo Switzerland Côte d'Ivoire Cook Islands
CH CI CK CL	Congo Switzerland Côte d'Ivoire Cook Islands Chile
CH CI CK CL CM	Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon
CH CI CK CL CM CN	Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China
CH CI CK CL CM CN CO	Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia
CH CI CK CL CM CN CO CR	Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Colombia Costa Rica
CH CI CK CL CM CN CO CR CU	Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba
CH CI CK CL CM CN CO CO CR CU CV	Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde
CH CI CK CL CM CN CO CR CU CV CV	Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba
CH CI CK CL CM CN CO CO CR CU CV CV CX CY	Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cuba Cape Verde Christmas Island Cyprus
CH CI CK CL CM CN CO CR CU CV CV	Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island
CH CI CK CL CM CN CO CO CR CU CV CV CX CY	Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cuba Cape Verde Christmas Island Cyprus
CH CI CK CL CM CN CO CR CU CV CV CX CY CZ	Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic
CH CI CK CL CM CN CO CO CR CU CV CV CX CY CZ DE	Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany
CH CI CK CL CM CN CO CR CV CV CX CY CZ DE DJ	Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica
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ES	Spain
ΕT	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands
	(Malvinas)
FM	Micronesia
50	(Federated States of)
FO	Faroe Islands
FR FX	France
GA	France, Metropolitan Gabon
GB	United Kingdom
GD	Grenada
GE	Georgia
GF	French Guiana
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe
GQ	Equatorial Guinea
GR	Greece
GS	South Georgia and
	the South Sandwich
0.T	Islands
GT	Guatemala
GU GW	Guam Guinea-Bissau
GY	Guyana
HK	Hong Kong
HM	Heard Island and
	McDonald Islands
ΗN	Honduras
HN HR	
	Honduras
HR	Honduras Croatia
HR HT HU ID	Honduras Croatia Haiti
HR HT HU ID IE	Honduras Croatia Haiti Hungary Indonesia Ireland
HR HT HU ID IE IL	Honduras Croatia Haiti Hungary Indonesia Ireland Israel
HR HT ID IE IL IN	Honduras Croatia Haiti Hungary Indonesia Ireland Israel India
HR HT HU ID IE IL	Honduras Croatia Haiti Hungary Indonesia Ireland Israel India British Indian Ocean
HR HT ID IE IL IN IO	Honduras Croatia Haiti Hungary Indonesia Ireland Israel India British Indian Ocean Territory
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LC	Saint Lucia
LI	Liechtenstein
LK	Sri Lanka
LR	Liberia
LS	Lesotho
LT	Lithuania
LU	Luxembourg
LV	Latvia Libyan Arab
Lī	Jamahiriya
MA	Morocco
MC	Monaco
MD	Moldova, Republic of
MG	Madagascar
MH	Marshall Islands
ML	Mali
MM	Myanmar
MN	Mongolia
MO	Macau
MP	Northern Mariana
	Islands
MQ	Martinique
MR	Mauritania
MS	Montserrat
MT	Malta
MU	Mauritius
MV	Maldives
MW	Malawi
MX	Mexico
MY	Malaysia
MZ	Mozambique
NA	Namibia
NC NE	New Caledonia Niger
NF	Norfolk Island
NG	Nigeria
NI	Nicaragua
NL	Netherlands
NO	Norway
NP	Nepal
NR	Nauru
NU	Niue
NZ	New Zealand
OM	Oman
PA	Panama
PE	Peru
PF	French Polynesia
PG	Papua New Guinea
PH	Philippines
PK	Pakistan
PL	Poland
PM	Saint Pierre and
	Miquelon
PN PR	Pitcairn Puerto Rico
PR PT	
PW	Portugal Palau
PY	Paraguay
QA	Qatar
RE	Réunion
RO	Romania
RU	Russian Federation
RW	Rwanda
SA	Saudi Arabia
SB	Solomon Islands
SC	Seychelles
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TK Tokelau TM Turkmenistan TN Tunisia TO Tonga TP East Timor TR Turkey TT Trinidad and Tobago TV Tuvalu TW Taiwan TZ Tanzania, United Republic of UA Ukraine UG Uganda UM United States Minor Outlying Islands US United States	
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TN Tunisia TO Tonga TP East Timor TR Turkey TT Trinidad and Tobago TV Tuvalu TW Taiwan TZ Tanzania, United Republic of UA Ukraine UG Uganda UM United States Minor Outlying Islands US United States	-
TO Tonga TP East Timor TR Turkey TT Trinidad and Tobago TV Tuvalu TW Taiwan TZ Tanzania, United Republic of UA Ukraine UG Uganda UM United States Minor Outlying Islands US United States	-
TP East Timor TR Turkey TT Trinidad and Tobago TV Tuvalu TW Taiwan TZ Tanzania, United Republic of UA Ukraine UG Uganda UM United States Minor Outlying Islands US United States	_
TR Turkey TT Trinidad and Tobago TV Tuvalu TW Taiwan TZ Tanzania, United Republic of UA Ukraine UG Uganda UM United States Minor Outlying Islands US United States	_
TT Trinidad and Tobago TV Tuvalu TW Taiwan TZ Tanzania, United Republic of UA Ukraine UG Uganda UM United States Minor Outlying Islands US United States	_
TV Tuvalu TW Taiwan TZ Tanzania, United Republic of UA Ukraine UG Uganda UM United States Minor Outlying Islands US United States	_
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UG Uganda UM United States Minor Outlying Islands US United States	
UM United States Minor Outlying Islands US UNited States United States	
UM United States Minor Outlying Islands US UNited States United States	
Outlying Islands US United States	
US United States	
	-
	-
UZ Uzbekistan	-
VA Vatican City State	-
-	
(Holy See) VC Saint Vincent and the	_
Grenadines	_
VE Venezuela	,
VG Virgin Islands (British)
VI Virgin Islands (U.S.)	_
VN Viet Nam	
VU Vanuatu	
WF Wallis and Futuna	
Islands	
WS Samoa	_
YE Yemen	
YT Mayotte	
YU Yugoslavia	
ZA South Africa	
ZM Zambia	
ZR Zaire	
ZW Zimbabwe	
2.7 2.11.64.0.000	

Listening to a radio broadcast



NOTE

Set the remote control mode selector to **AUDIO** before using the number buttons.

Selecting a station

1 Press FM/AM.

Each time you press the button, FM and AM change alternately.

2 Press I◄◄/►►I to select the station (frequency).

Automatic tuning:

Hold down $| \blacktriangleleft | > |$ until the system starts searching, and then release the button. (The AUTO indicator lights while searching.) When a station of sufficient signal strength is tuned in to, the system stops searching automatically.

To stop searching manually, press

Manual tuning:

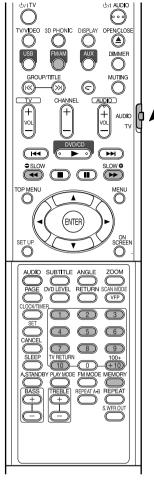
Each time you press I◄◄/►►I, the frequency changes.

• When an FM stereo program is received, the ST (Stereo) indicator lights.

NOTE

If the stereo FM program currently tuned in to is noisy, you can improve the reception by pressing FM MODE to switch to the monaural mode. If you press FM MODE again, or tune in to another station, the receiving mode returns automatically to the stereo mode.

Tuning in to a preset station



Presetting stations in the system allows you to easily tune in to a station.

NOTE

Set the remote control mode selector to **AUDIO** before using the number buttons.

Presetting stations

The system stores up to 30 FM stations and up to 15 AM stations.

 Select a station you want to store (page 32 for how to select).

2 Press MEMORY.

"MEMORY" is flashing on the display window for a while.

3 Select the number you want to store by pressing number buttons while "MEMORY" is flashing.

- You can also select the number by using the number buttons.
- Refer to "How to use the number buttons" (page 15).

4 Press MEMORY while the selected number is flashing.

"STORED" appears on the display window and the selected station is stored.

NOTE

- Storing a new station to a used number erases the previously stored station.
- After storing new stations, do not unplug the AC power cord to turn off the system. If you do so, the new preset stations will be cleared.

Tuning in to a preset station

- Press FM/AM to select either FM or AM.
- **2** Press the number buttons to select the memory number of a station you want to tune in to.

Refer to "How to use the number buttons" (page 15).

You can also select by pressing $\triangleleft \triangleleft / \triangleright \triangleright$.

This System is equipped with a USB terminal in the door of the front panel. You can connect your PC to this terminal and enjoy the sound out of 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

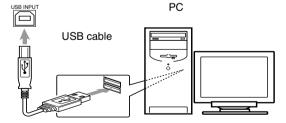
• Always set volume to "VOL MIN" when connecting or disconnecting the other equipment.

How to install the USB drivers

The following procedure is described using the English version of Windows® XP. If your PC is running on a different version of operation system or language, the screens shown on your monitor may differ from the ones used in the following procedure.

- 1 Turn on your PC and start running Windows® 98SE, Windows® Me, Windows® 2000 or Windows® XP.
 - If the PC has been turned on, quit all the applications running.
- **2** Turn on the System and press USB.
- **3** Connect the System to the PC using a USB cable (not supplied).

(in the door of the front panel)



• Use "USB series A plug to B plug" cable (version 1.1 or later) less than 3 m.

4 The USB drivers are installed automatically.

• If the USB drivers are not installed automatically, install the USB drivers following the instructions on the PC's monitor.

5 Check if the drivers are correctly installed.

- 1 Open the Control Panel on your PC: Select [Start] → [Control Panel]
- 2 Click [System] → [Hardware] → [Device Manager] → [Sound, video and game controllers] and [Universal Serial Bus controllers].
- 3 Check whether the following items appear.
 - USB Audio Device
 - USB Composite Device

If the items cannot be shown, disconnect the USB cable and connect it again. If it does not work yet, turn off your PC and repeat from Step **1**.

To play back sounds on the PC

Refer to the manuals supplied with the music application software installed in the PC.

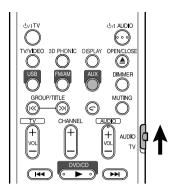
Start the application.

NOTE

- 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
- DO NOT turn off the System and disconnect the USB cable while installing drivers and playing back, and for several seconds after your PC is recognized the System.
- The installed drivers can be shown only when the System is connected to the PC.

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

Listening to the sound of other audio device



Connect the other audio device to this system in advance (page 10).

1 Press AUX.

The source changes to AUX.

2 Play the other audio device.

For details, refer to the manual of the device connected.

3 Adjust the volume and the sound quality of the system (page 16).

TOP MENU ENTER SET UP CAUDIO SUBTITLE ANGLE ZOOM PAGE DVD LEVEL RETURN SCANMORE CLOCKTIMER CLOCK

Setting the Various Timer

Setting the built-in clock

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

- To exit from the clock setting, press CLOCK/ TIMER as required.
- To correct a misentry during the procedure below, pressing **CANCEL** can return to the previous step.

1 Press CLOCK/TIMER.



- If you have already adjusted the clock before, press the button repeatedly until the clock time starts flashing.
- 2 Press cursor *◄*/► to adjust the hour, then press SET.

3 Press cursor </ >→ to adjust the minute, then press SET.

Now the built-in clock starts to work.

Setting the daily timer

Using the daily timer, you can wake up with your favorite song.

- You can store the three daily timer settings; however, you can activate only one of the daily timer.
- To correct a misentry during the procedure below, pressing **CANCEL** can return to the previous step.

How the 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 window. Daily timer turns on the system at the same time everyday until the timer setting is canceled manually or another daily timer is activated.

When the on-time comes:

The system turns on, tunes in to the specified station or start playback the loaded disc with the volume level set to the preset level.

- The timer setting remains in memory until you can change it.
- Without canceling the daily timer, you can change the source or adjust the volume after the daily timer starts playback.
- **1** Press CLOCK/TIMER repeatedly to show "DAILY 1."
 - Each time you press the button, the clock setting changes as follows:

Source indication	\rightarrow	DAILY 1
Ť		Ļ
Clock adjust Å		ON AM 6:00
ON PM 6:00		DAILY 2
Î DAILY 3 ◄		↓ ON PM 12:00

- 2 Press cursor *◄*/► to adjust the hour of the timer-on time, then press SET.
- 3 Press cursor *◄/►* to adjust the minute of the timer-on time, then press SET.
- **4** Repeat Step **2** and **3** to set the timer-off time.
- 5 Press cursor *◄/►* to select the playback source, then SET.
 - Each time you press the button, the clock setting changes as follows:

 $\begin{array}{c} \text{AUX} \longleftrightarrow \text{TUNER FM} \\ \uparrow & \uparrow \\ \text{DISC} \longleftrightarrow \text{TUNER AM} \end{array}$

- When selecting the tuner, press cursor ◄/► to select a preset channel.
- When selecting "DISC", you can specify the group and track. For the discs other than MP3/WMA, the group selection does not take effect.

- 6 Press cursor *◄*/► to adjust the volume level, then SET.
- **7** Turn off the system.

To turn off the timer setting

1 Press CLOCK/TIMER repeatedly to select the timer setting.

2 Press CANCEL to turn off the selected setting.

• Pressing **SET** activates the timer setting again.

Auto Standby

If there is no operation for 3 minutes while the disc is stopped, the power will be automatically turned off.

Press A.STANDBY during playback or while the disc is stopped, or no disc is loaded ("NO DISC" appears).

The A.STANDBY indicator lights on the display window on the main unit.

When a stopped state is entered (after playback is finished, for example), the A.STANDBY indicator starts blinking.

This means that the power will be turned off automatically if there is no operation for 3 minutes. And 10 seconds before the power is turned off, "A.STANDBY" starts flashing.

Releasing Auto Standby

Press A.STANDBY.

"A.STANDBY" will be turned off on the display window on the main unit.

NOTE

When the source is FM, AM, USB or AUX, Auto Standby does not work.

Sleep Timer

When the time you specify elapses, the system will be turned off by itself.

Press SLEEP.

Each time you press the button, the time indicated on the display window on the main unit changes (in minutes).

Changing the time

Reselect the time by pressing SLEEP repeatedly.

Confirming the time

Press **SLEEP** once while Sleep Timer is set.

Releasing

Press **SLEEP** repeatedly until "SLEEP OFF" appears.

NOTE

Sleep Timer will also be released when the power is turned off.

Tray Lock

You can lock the disc tray to prevent the disc from being ejected.

Setting

While the system is turned off, press \triangleq (Open/ Close) with \blacksquare (Stop) on the main unit held. "LOCKED" appears on the display window on the main unit.

Releasing

Carry out the same operations as those for setting. "UNLOCKED" appears on the display window on the main unit.

Troubleshooting

When you encounter a problem that seems to be a fault, check the following points before contacting your JVC service center.

Power source

- Power does not come on.
 - The power cord is not connected to the main unit or an AC outlet.
 - → Connect the power cord correctly (page 11).

Operation

You cannot operate any button.

- Some specific operations may be inhibited for some discs.
- The remote control does not work.
 - The dry-cell batteries have run out.
 → Replace the batteries (page 6).
- A disc cannot be played back.
 - In the case of DVD VIDEO discs
 - \rightarrow Check the Region Code number of the discs (page 3).
 - "NO PLAY" is displayed on the display window.

It is not a disc that can be played on this system.

- \rightarrow Check the disc type (page 3).
- Parental Lock is set (page 30).

About images

No picture appears.

- The video cord is not connected correctly. \rightarrow Page 11
- Both of the component video jack and Svideo jack are connected.
 → Connect either (page 11).
- The picture is distorted.
 - A VCR is connected between the main unit and the TV set.
 - $\rightarrow\,$ Connect the main unit directly to the TV set (page 11).
 - Although this system is connected to a non-Progressive TV set, DVD's scan mode is set to "PROGRESSIVE".
 - \rightarrow Set the scan mode to "INTERLACE" (page 26).
- The screen size is abnormal.
 - The screen size is set improperly.
 - → Set "MONITOR TYPE" according to the TV set you are using (page 29).

- The TV screen darkens.
 - "SCREEN SAVER" is set.
 - \rightarrow If set, press any button (page 29).
- The screen cannot be switched.
 - The Progressive mode is applied only to component video output.

About sound

There is no sound.

- Speakers are not connected correctly.
 → Page 9
- The sound is muted.
 → Page 16
- "NO AUDIO" is displayed on the display window.
 - The disc may have been produced through illegal copying.
 - → Confirm at the store where you bought the disc.
- The sound is weak compared with TV or Video.
 - "DVD LEVEL" is set to "NORMAL".
 → Set to other than "NORMAL" (page 26).
- The sound is distorted.
 - The volume is turned up too high.
 → Turn down the volume (page 16).
- No sound comes out of the subwoofer.
 - "SUBWOOFER" is turned off.
 - \rightarrow Press **S.WFR OUT** to turn on (page 10).
- \blacksquare The sound through the USB connection stops.
 - 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
 - \rightarrow Restart the music software on your PC
 - \rightarrow Turn off and on the system

About radio

- The sound is noisy while receiving/Receiving is disabled.
 - The antenna is not connected correctly.
 → Connect the antenna correctly (page 8).

Language codes

Others

- It is not possible to switch audio or subtitles between languages.
 - The disc does not contain 2 or more languages.
 - → If only a single language is recorded on the disc, switching to another language is impossible (page 24).
- No subtitle is displayed.
 - The disc does not contain any subtitles.
 → A DVD VIDEO without subtitles cannot display any subtitles.
 - The subtitle language is set to "OFF".
 → Specify a language (page 29).
 - Before or after A point or B point in A-B Repeat Playback, no subtitle may be displayed.
- The disc cannot be ejected.
 - Tray Lock is set.
 → page 37
- "LR ONLY" is displayed on the display window (for a DVD AUDIO).
 - Because, for the track being played back, down mix is inhibited for multi-channel sound, the sound of L and R is output directly (a normal action).

If the system does not work properly despite correction measures above

Many functions of this system are implemented by microcomputers. If pressing any button does not result in the normal action, disconnect the power plug from the outlet, wait for a while, and reconnect the system.

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

Specifications

English

Power source:	AC 120 V \sim , 60 Hz
Power consumption:	25 W (in operation)
	1.0 W (on standby)
Weight:	3.0 kg
External dimensions (W x H x D)	
	150 mm x 152 mm x 246 mm

DVD player

General

Playable discs: DVD VIDEO, DVD AUDIO, VCD, SVCD, CD, CD-R/RW (CD, VCD, MP3, WMA, JPEG format), DVD-R/-RW (video format)

Video output

Color system:	NTSC
Horizontal resolution:	500 lines
Composite x1:	1.0 V (p-p)/75 Ω,
	synchronization negative
S-video x1:	Y output: 1.0 V (p-p)/75 Ω,
	synchronization negative
	C output: 0.286 V (p-p)/75 Ω
Component x1:	Y output: 1.0 V (p-p)/75 Ω
·	P_B/P_R output: 0.7 V (p-p)/75 Ω

Audio output

Analog sound output: Speakers x2 Output power:

Fitting impedance: Headphones x1: Fitting impedance:	with no more than 10% total harmonic distortion 4Ω to 16 Ω 11 mW/32 Ω 16 Ω to 1 k Ω
Subwoofer x1: Digital sound output:	500 mVrms/10 k Ω
Optical x1:	–21 dBm to –15 dBm

18 W per channel, min. RMS, at 4 Ω at 1 kHz

Audio input

Sound input: AUX x1 400 mV/50 kΩ USB AUDIO x1

Tuner FM tun

FM tuner:	
Receiving frequency:	87.5 MHz to 108.0 MHz
Antenna:	75 Ω- Unbalanced type
AM (MW) tuner:	
Receiving frequency:	530 kHz to 1 710 kHz
Antenna:	External antenna jack (loop
	antenna)
	,

Speaker

Туре:	Full range
	1-way bass-reflex type
	Magnetically shielded type
Speaker:	8 cm cone x1
Frequency response:	55 to 20 000 Hz
Power handling capacity:	30 W
Impedance:	4 Ω
Sound pressure level:	80 dB/W∙m
Dimension (W x H x D):	120 mm x 151 mm x 241 mm
Weight:	1.8 kg each

Designs and Specifications are subject to change without notice.



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