

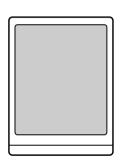


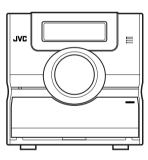
COMPACT COMPONENT SYSTEM

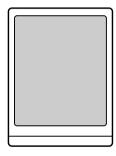
FS-Y1

Consists of CA-FSY1 and SP-FSY1

















//// INSTRUCTIONS

Warnings, Cautions and Others

CAUTION—STANDBY/ON (1)/| button!

Disconnect the mains plug to shut the power off completely (all lamps and indications go off). The STANDBY/ON (b/) button in any position does not disconnect the mains line.

- When the unit is on standby, the STANDBY/ON lamp lights in red.
- When the unit is turned on, the STANDBY/ON lamp lights in green.

The power can be remote controlled.

CAUTION

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

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

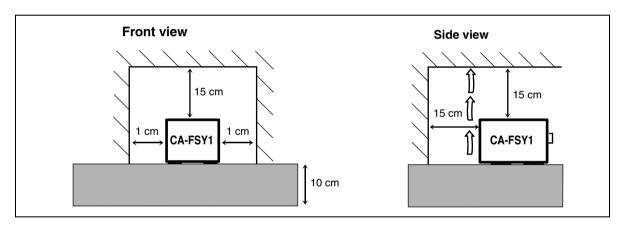
CAUTION

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

CAUTION: Proper Ventilation

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

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



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 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	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.
- The following marks tell you for which type of the discs the operation can be made.













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".

Special cautions

Notes on handling

Important cautions

Installation of the system

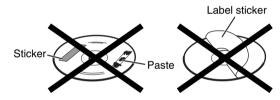
- Select a place which is level, dry and neither too hot nor too cold; between 5°C and 35°C.
- Leave sufficient distance between the system and the
- Do not use the system in a place subject to vibration.

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.



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

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

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
- 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)
- Batteries (2)
- FM antenna (1)
- AM loop antenna (1)
- Power cord (1)
- Composite video cord (1)
- Speaker cords (2)

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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.

About discs Introduction

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:

Discs you can play.		
Disc Type	Mark (Logo)	Video Format
DVD VIDEO	VIDEO TM VIDEO	PAL/ NTSC
DVD AUDIO	AUDIO/VIDEO AUDIO	l
VCD	COMPACT Video CD	PAL/ NTSC
SVCD	COMPACT VIDEO VIDEO SUPER VIDEO CD	PAL/ NTSC
CD	COMPACT DIGITAL AUDIO	l
CD-R	COMPACT CITE DIGITAL AUDIO Recordable	_
CD-RW	COMPACT DIGITAL AUDIO REWITADIE	_

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 "4".

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.

About discs (continued)

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.)

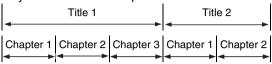
For JPEG files

- 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".



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).



VCD/SVCD/CD

VCD, SVCD and CD consist of "tracks".

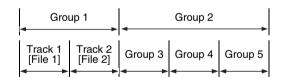
In general, each track has its own track number. (On some discs, each track may also be further divided by indexes.)



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 layers.

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

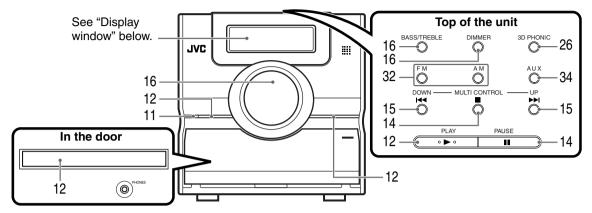


This product can recognize up to 1 000 tracks [files] in a disc. Also, the product can recognize up to 150 tracks [files] per group and up to 99 groups in a disc. Since the unit ignores the tracks [files] whose numbers are exceeding 150 and the groups whose numbers are exceeding 99, they cannot be played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

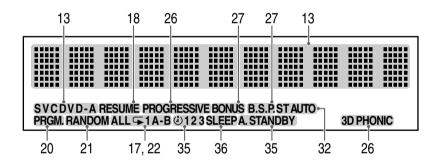
The numbers represent the page numbers.

Front panel

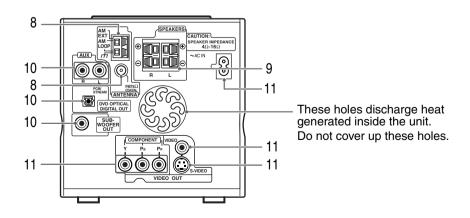


* Connect headphones (not supplied) with a stereo mini plug. If the headphones are connected, the speakers and subwoofer will not produce any sound.

Display window

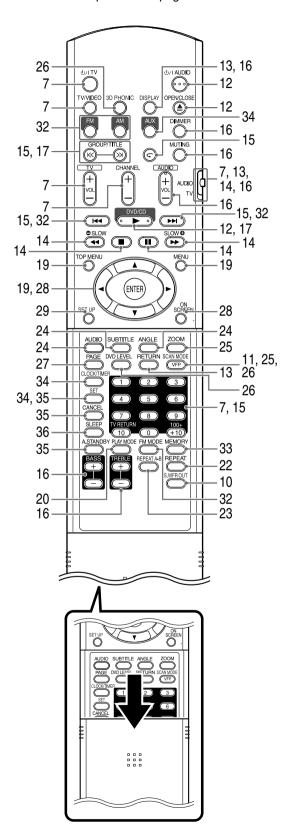


Rear panel

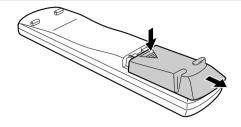


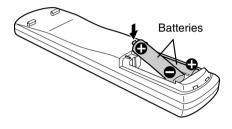
Using the remote control

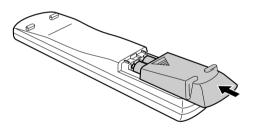
The numbers represent the page numbers.



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.

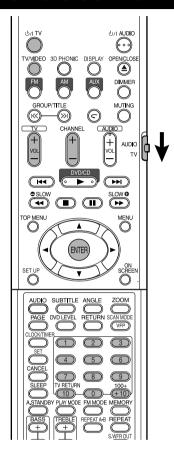
Remote control operation

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/ITV.

NOTE

Keep pressing down ٺ\ 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 ७/| TV.

For TV operation

Operate the remote control by pointing it towards the TV.

ФЛТУ	Turn ON/OFF the power.	
CHANNEL +	Change channels.	
TV + VOL	Adjust volume.	
1 ~ 9 / 100+ 0 / + 10	AUDIO TV 1	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.

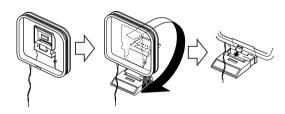
NOTE

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

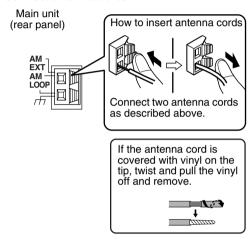
Connecting antennas

Connecting AM loop antenna (supplied)

1 Set up the AM loop antenna.

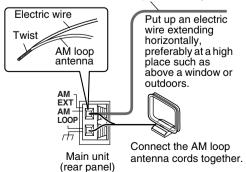


2 Connect antenna cords.

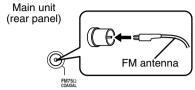


- 3 Turn the AM loop antenna to the direction of the best radio reception.
 - Locate the AM loop antenna as far away from the main unit as possible.
 - Do not locate the AM loop antenna on a metallic table or close to a TV, personal computer, etc.
 Otherwise it may result in bad radio reception.
- When good radio reception cannot be obtained with the supplied AM loop antenna

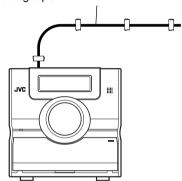
Electric wire: 3 - 5 m (commercially available)



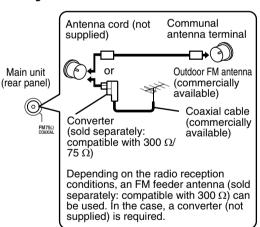
Connecting FM antenna (supplied)



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



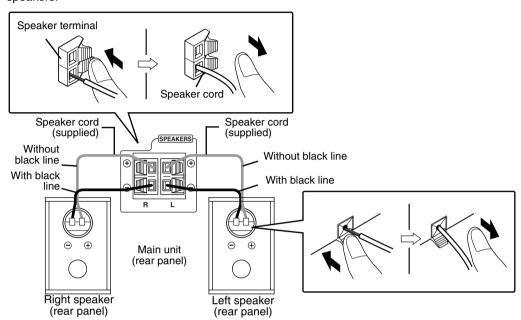
 When good radio reception cannot be obtained with the supplied antenna or when using a communal antenna



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

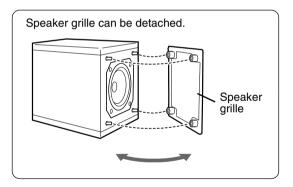
Connecting speakers

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.
 - 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 between the TV and the speakers.



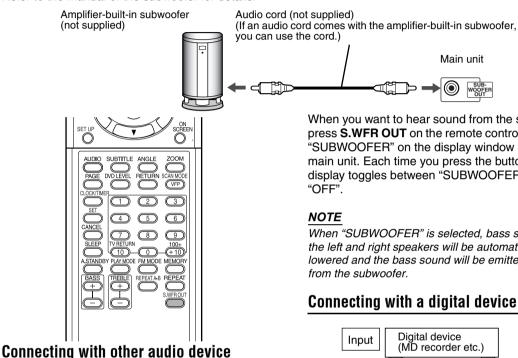
- Impedance of speaker that can be connected to the main unit is within a range of 4 Ω to 16 Ω .
- In order to have a sufficient cooling effect, leave a space of more than 1 cm between the main unit and the speakers or other objects.

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.



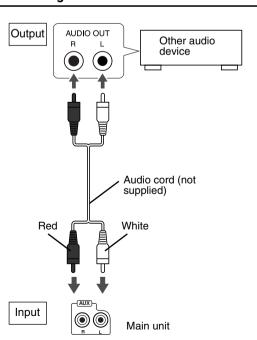
When you want to hear sound from the subwoofer, press S.WFR OUT on the remote control to display "SUBWOOFER" on the display window on the main unit. Each time you press the button, the display toggles between "SUBWOOFER" and "OFF".

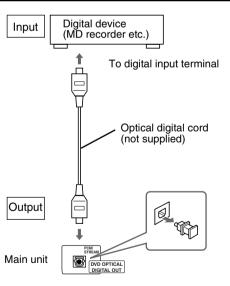
Main unit

NOTE

When "SUBWOOFER" is selected, bass sound from the left and right speakers will be automatically lowered and the bass sound will be emitted mainly from the subwoofer.

Connecting with a digital device

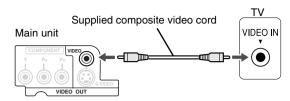




CAUTION

- · For details of signals to be output, refer to page
- · 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.

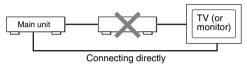
Connecting with TV



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.

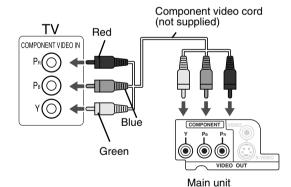


Also, when connecting the main unit to a TV with a VCR built in, there may be picture distortion while playing.

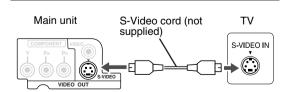
You can enjoy pictures of better quality using the following cord instead of the supplied video cord.

Connecting by using the component video cord

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



Connecting by using the S-Video cord



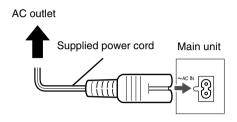
CAUTION

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.

Selecting an AM interval spacing

You can change the AM interval spacing.

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

- Before doing the following procedure, select AM as source, then turn off the unit.
- . Use the buttons on the main unit.

To set the AM tuner to the 10 kHz spacing:

While holding ►►I, press STANDBY/ON ७/I.

To set the AM tuner to the 9 kHz spacing:

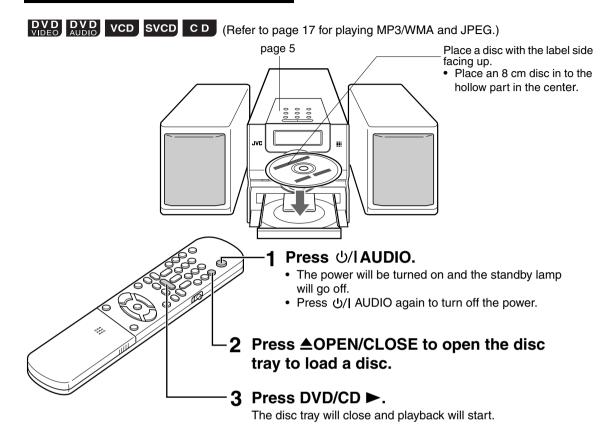
While holding l◄◄, press STANDBY/ON ୯/I.

Changing the color system

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

- 1 Press and hold VFP for 4 seconds while the system is turned off (on standby).
- 2 Press cursor **◄/►** to select the video output.
- 3 Press ENTER to set the video output.

Playback



The power will be turned on when any of PLAY
 ▶, FM, AM, AUX, or ▲ on the main unit and
 DVD/CD ▶, 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).

NOTE

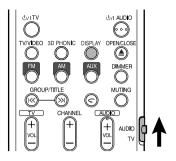
- A menu screen may be displayed on the TV after starting playback of a DVD/VCD/SVCD. In this case, select a desired item to playback by using the following buttons on the remote control.
 - Select a desired item using cursor ▲/▼/◄/►
 and press ENTER.
 - Select a desired item using the number buttons.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



Screens displayed on the TV when the power is turned ON.

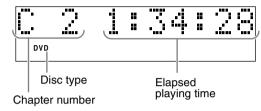
The following messages appear depending on the status of the system. (When FM, AM or AUX is selected as a source, the messages do not appear.)

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



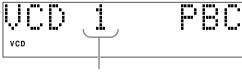
Ex.: When a DVD AUDIO is played



Track number

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

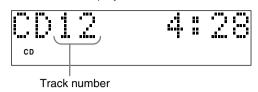
Ex.: When an SVCD or VCD is played



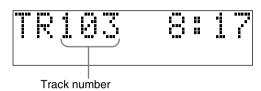
Track number

- 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



Ex.: When an MP3/WMA file is played

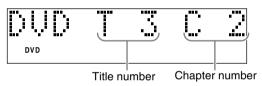


To switch the display

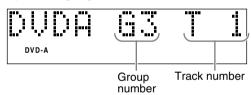
Press **DISPLAY**.

Each time you press the button, the display indication changes temporarily as follows:

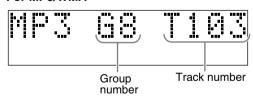
For DVD VIDEO



For DVD AUDIO



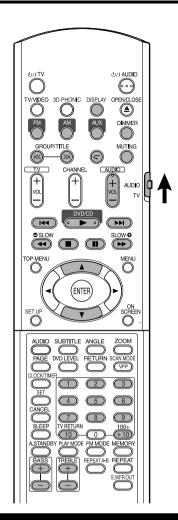
For MP3/WMA



For SVCD/VCD/CD

The clock time indication appears on the display window.

- Before setting the clock (page 34), "0:00" 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



NOTE

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

 AUDIO Selection for the number buttons.

 AUDIO Selection for 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



Press ■ during playback.

To pause playback



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



Press II during pause.

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

Fast reverse/Fast forward search



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)



Press \subset during playback.

NOTE

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

Slow Motion Playback



pause.

- Each time you press the button, the playback speed increases ($\times 1/32$, $\times 1/16$, $\times 1/8$, $\times 1/4$,
- 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









Press | ◀ or ▶ b | 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 >> to select the title
- During playback of a JPEG disc, press ►►I or cursor ▼ to play the next file, or press I◄◄ or cursor \(\Lambda \) to play the previous file.

NOTE

- 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.

How to use the number buttons

Ex.:

5: 5

15: (+10) → (5)

20: (+10) → (10)

25:

 $(+10) \rightarrow (+10) \rightarrow (5)$



Guide icons displayed on the TV screen (On-screen guide)



: Plav



: Pause





: Fast reverse/Fast forward search



: Slow Motion Playback (reverse/ forward directions)



: Containing multi-angle views (page 24)



Containing multi-audio languages (page 24)



: Containing multi-subtitle languages (page 24)



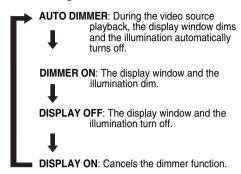
: The disc cannot accept the operation you have attempted.

Playing audio/video files

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

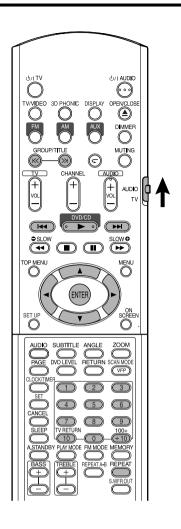
Bass: Press BASS +/-.
Treble: Press TREBLE +/-.

• 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.



NOTE

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



Playback

MP3 WMA

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

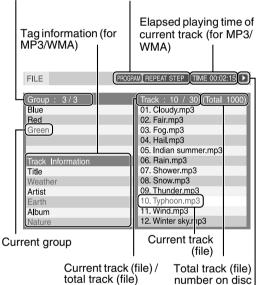
For a JPEG disc, read "track" as "file".

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)



Playback status

2 Press cursor ▲/▼ to select a group.

number on current

group

- 3 Press cursor ► to move to the track list.
 - Press cursor

 to go back to the group 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 ▶ or ENTER.

NOTE

- 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).
- I◄◄ or ➤►I can also be used in Step 4. In this case, Step 5 is not needed.

Repeat playback

MP3 WMA JPEG

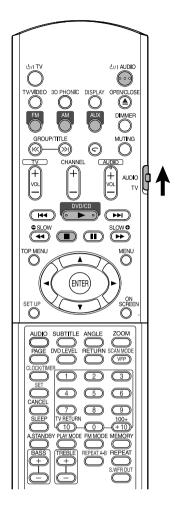
1 Press REPEAT.

• 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 ⊊1
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
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).



NOTE

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



DVD DVD 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/ AUDIO to turn off the power.

Change the source to FM, AM or AUX.*

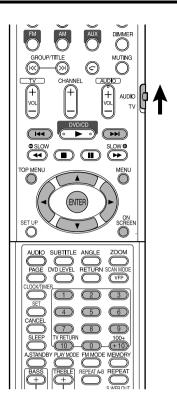
* Even if the power is turned off by pressing U/I AUDIO after this, the position where playback has been stopped will be stored.



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).



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).

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)

DVD DVD VCD SVCD CD

1 Press ON SCREEN twice during playback².

The menu bar will be displayed (page 28).

- 2 Press cursor ◀ /► to select ④ .
- 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.

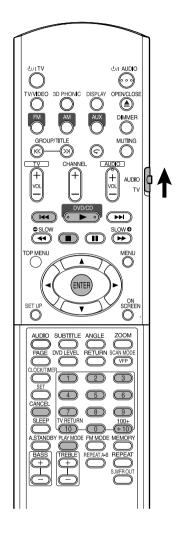
5 Press ENTER.

To delete the menu bar, press ON SCREEN.

- 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





NOTE

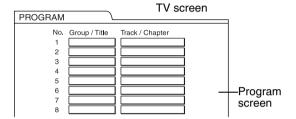
Set the remote control mode selector to **AUDIO** before using the number buttons.



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.

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



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)

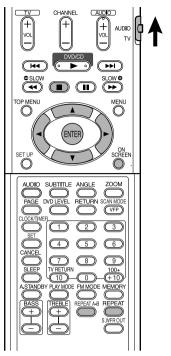
- 1 Press PLAY MODE repeatedly to display "RANDOM" on the display window on the main unit while the disc is stopped.
 - "RANDOM" will also be displayed on the TV screen.

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◄◄ 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)



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 ⊊1
Current title	TITLE	REP TTL
Cancel	OFF	REP OFF

For DVD AUDIO

Repeat items	On the TV	On the display window
Current track	TRACK	REP TRK ⊊1
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 ⊊1
All tracks	(<u>L</u>)ALL	REP ALL
Cancel	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 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	STEP or REPEAT STEP	REP STEP
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)



1 Press ON SCREEN twice during playback.

The menu bar (page 28) will be displayed.

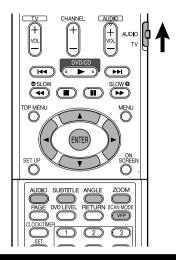
- 2 Press cursor <-/>
 ✓/► to select
 color: |.
- **3** Press ENTER.
- 4 Press cursor ▲/▼ to display

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 <u>A-B</u> 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 🖒 A-B | 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.



Selecting the subtitles

DVD SVCD DVD AUDIO

(only for moving image)

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

Ex.:



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

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

- For a language code such as "AA", refer to "Language codes" (page 38).
- 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



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

Ex.:



- 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 38).
- "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).

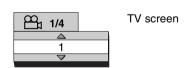
Selecting a view angle

DVD DVD VIDEO AUDIO

(only for moving image)

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

Ex.:



- 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



DVD VCD SVCD DVD JPEG





(only for moving image)

- 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 $\triangle/\nabla/\blacktriangleleft/\triangleright$.
 - To resume normal playback, select "ZOOM OFF" in Step 1.

Adjusting the picture









Press VFP during playback or while paused.

> The current setting will be displayed on the TV screen.



- 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.

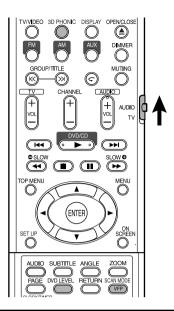
2 Press cursor **◄/►** to select VFP

- 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.



- 5 Press cursor **△**/**▼** to change the value.
- 6 Press ENTER. To adjust other items, go back to Step 3.
- 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)











The two speakers produce an effect resembling surround-sound.

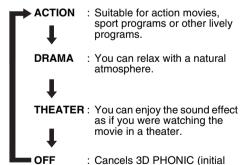
Press 3D PHONIC during playback.

Ex.:

TV screen

3D PHONIC OFF

 Each time you press the button, the 3D PHONIC will be alternated as follows:



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

setting).

NOTE

- 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)

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

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
- 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

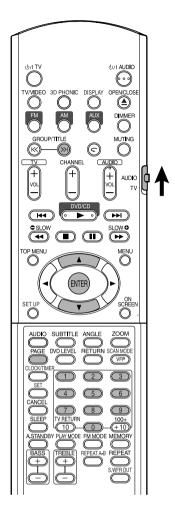
Progressive mode:

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.





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.

- 1 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.

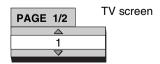
NOTE

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

1 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 $\blacktriangle/\blacktriangledown$.

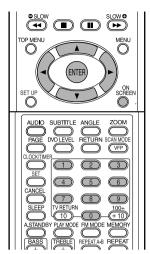
Ex.:



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

Using the menu bar





NOTE

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

 TV
- 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.



The above is an example for a DVD VIDEO.

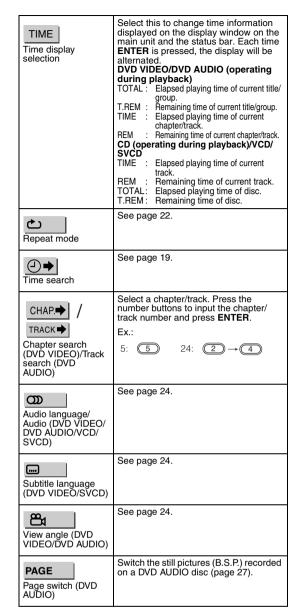
2 Press cursor **◄/►** to select an item to be operated.

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.

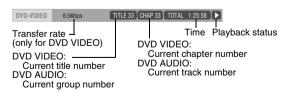
Functions list

For the functions with no special description for the operations, press cursor ▲/▼ to select, and press ENTER to determine.

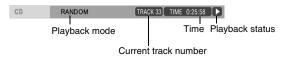


Information displayed on the status bar

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



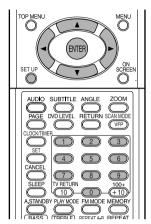
VCD/SVCD/CD (the example below is for a CD)



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.

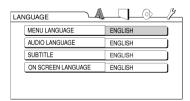
NOTE

- 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.



LANGUAGE

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 38).

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. 16:9/16:9 MULTI: 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/4:3 MULTI 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/4:3 MULTI 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.)
	By selecting "MULTI" mode, the color system of the System changes automatically to match that of the loaded disc.
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.		



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 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 l	PCM
DTS DVD VIDEO	DTS bit stream	48 kHz, 16 bits s	stereo linear PCM
DOLBY DIGITAL DVD VIDEO/ DVD AUDIO	DOLBY DIGIT	AL 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 k	oits linear PCM
MP3/WMA disc	32/44.1/48 kHz, 16 bits stereo linear PCM		

<u>NOT</u>E

- 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.

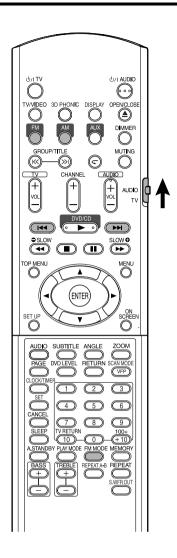
AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
Al	Anguilla
AL	Albania
AM	Armenia
AN	Netherlands Antilles
AO	Angola
AQ	Antarctica
AR	Argentina
AS	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AZ	Azerbaijan
BA	Bosnia and
5, (Herzegovina
BB	Barbados
BD	Bangladesh
BE	Belgium
BF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

ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands
''`	(Malvinas)
FM	Micronesia
FIVI	
	(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
us.	
	the South Sandwich
	Islands
GT	Guatemala
GU	Guam
GW	Guinea-Bissau
GY	Guyana
HK	Hong Kong
НМ	Heard Island and
1	McDonald Islands
LINI	
HN	Honduras
HR	Croatia
HT	Haiti
HU	Hungary
ID	Indonesia
ΙE	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
JP	Japan
KE	Kenya
KG	Kyrgyzstan
KH	Cambodia
KI	Kiribati
KM	Comoros
KN	Saint Kitts and Nevis
KP	Korea, Democratic
	People's Republic of
KR	Korea, Republic of
KW	Kuwait
KY	Cayman Islands
KZ	Kazakhstan
LA	Lao People's
	Democratic Republic
LB	Lebanon

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

SD	Sudan
SE	Sweden
SG	Singapore
SH	Saint Helena
SI	Slovenia
SJ	Svalbard and Jan
30	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
	Swaziland
SZ TC	Turks and Caicos
10	
TD	Islands
TD	Chad
11-	French Southern
-	Territories
TG	Togo
TH	Thailand
TJ	Tajikistan
TK	Tokelau
TM	Turkmenistan
TN	Tunisia
ТО	Tonga
TP	East Timor
TR	Turkey
TT	Trinidad and Tobago
TV	Tuvalu
TW	Taiwan
TZ	Tanzania, United
	Republic of
UA	Ukraine
UG	Uganda
UM	United States Minor
	Outlying Islands
US	United States
UY	Uruguay
UZ	Uzbekistan
VA	Vatican City State
	(Holy See)
VC	Saint Vincent and the
	Grenadines
VE	Venezuela
VG	Virgin Islands (British)
VI	Virgin Islands (U.S.)
VN	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

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 or AM.
- 2 Press | ◄ ◄ / ▶ I to select the station (frequency).

Automatic tuning:

Hold down I◄◄/▶►I 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◄◄/▶►I.

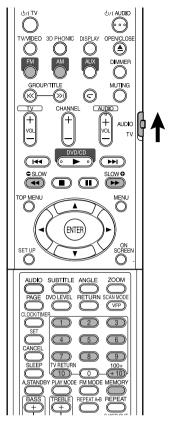
Manual tuning:

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.



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.

- 1 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.

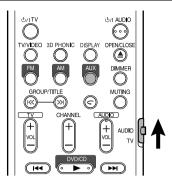
Tuning in to a preset station

- 1 Press FM or 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 ◀◀/▶▶.

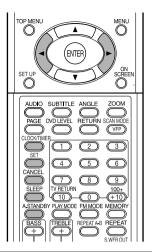
Listening to the sound of other audio device



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

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.

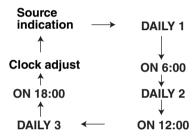
When the on-time comes:

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:



- 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:



- 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 or AUX, Auto Standby does not work.

Setting the Various Timer (continued)

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 ▲ (open/close) with ■ (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.

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

About images

■ No picture appears.

- The video cord is not connected correctly.
 - → 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.
 - → 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".
 - \rightarrow 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.
 - → Press **S.WFR OUT** to turn on (page 10).

About radio

The sound is noisy while receiving/Receiving is disabled.

- · The antenna is not connected correctly.
 - → Connect the antenna correctly (page 8).

Troubleshooting (continued)

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 36

"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.

Language codes

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 Azebaijani 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 PA Panjabi CA Catalan PL Polish CO Corsican PS Pashto, Pushto CS Czech PT Portuguese CY Welsh QU Quechua DA Danish RM Kirundi EL Greek RO Rumanian ED Esperanto RU Russian ET Estonian RW Kinyarwanda EU Basque SA Sanskrit FA Persian SD Sindhi FI Finnish SG Sangho FJ Fiji SH Serbo-Croatian GD Scots Gaelic SM Samoan GL Galician SN Shona GN Guarani SO Somali GU Gujarati SQ Albanian HA Hausa SR Serbian HH Hundi SS Siswati HH Hundi SS Siswati HH Hundi SS Siswati HH Croatian TY Trial Interlingua SW Swahili IE Interlingua SW Swahili IE Interlingua TA Tamil II Tigrinya JI Yiddish TK Turkish KK Cambodian TS Sesotho HU Hungarian SU Surdanese KK Gazakh TO Tonga KK Garani SO Somali KK Gazakh TO Tonga KK Kazakh TO Tonga KK Kazakh TO Tonga KK Kirghiz UZ Uzbek LA Latin VI Vietnamese LN Lingala VO Volapuk LO Laothian XH Xhosa LV Lingala VO Volapuk LN Linga	Code	Language	Code	Language
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LV Latvian, Lettish YO Yoruba MG Malagasy ZU Zulu		Laothian		
MG Malagasy ZU Zulu				Xhosa
	LV	Latvian, Lettish		Yoruba
MI Maori	MG	Malagasy	ZU	Zulu
	MI	Maori		

General

Power source: AC 110-240 V \sim , 50/60 Hz

Power consumption: 25 W (in operation)

1.3 W (on standby)

Weight: 2.7 kg

External dimensions

(W x H x D): 150 mm x 152 mm x 246 mm

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: PAL/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 \(\text{S} \)

S-video x1: Y output: 1.0 V (p-p)/75 Ω, synchronization negative

C output:

For PAL 0.3 V (p-p)/75 Ω For NTSC 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: 18 W per channel, min.

RMS, at 4 Ω at 1 kHz with no more than 10% total harmonic distortion

 $\begin{array}{lll} \mbox{Fitting impedance:} & 4 \ \Omega \ \mbox{to 16} \ \Omega \\ \mbox{Headphones x1:} & 11 \ \mbox{mW/32} \ \Omega \\ \mbox{Fitting impedance:} & 16 \ \Omega \ \mbox{to 1 k} \Omega \\ \mbox{Subwoofer x1:} & 500 \ \mbox{mVrms/10 k} \Omega \end{array}$

Digital sound output:

Optical x1: —21 dBm to –15 dBm

Audio input

Sound input: AUX x1

400 mV/50 k Ω

Tuner

FM tuner:

Receiving frequency: 87.5 MHz to 108.0 MHz

Antenna: 75 Ω - Unbalanced type

AM tuner:

Receiving frequency: 530 kHz to 1 710 kHz

(at 10 kHz interval spacing) 531 kHz to 1 710 kHz

(at 9 kHz interval spacing)

Antenna: External antenna jack (loop

antenna)

Speaker

Type: Full range

1-way bass-reflex type Magnetically shielded type

Speaker: 8 cm cone x1

Frequency response: 60 to 20 000 Hz

Power handling capacity: 20 W Impedance: 4 Ω Sound pressure level: 81 dB/W·m

Dimension (W x H x D): 120 mm x 150 mm x 188 mm

Weight (1 unit): 1.5 kg

Designs and Specifications are subject to change without notice.

JVC



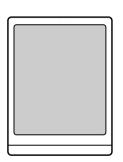
COMPACT COMPONENT SYSTEM

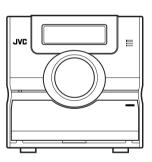
组合音响系统

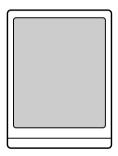
FS-Y1

Consists of CA-FSY1 and SP-FSY1 由CA-FSY1及 SP-FSY1 組成

















INSTRUCTIONS

使用说明书

Warnings, cautions and others

警告,注意及其他须知事项

CAUTION

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

- Do not remove screws, covers or cabinet.
- 2. 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 U/ 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.

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.

注意

为了减少触电,火灾等危险:

- 1. 请勿擅自卸下螺丝钉,盖子或机壳。
- 2. 请勿让本机受雨淋或置潮湿环境中。

注意-STANDBY/ON む/I 开关!

无论 STANDBY/ON U/I开关在任何位置, 电源线的电源还是没有被切断, 若要将电源完全关闭,应把电源插头拔离插座 (STANDBY/ON 灯熄灭)。

- 当主机正处于备用状态,STANDBY灯为红色。
- 当主机开启后,STANDBY灯为青色。

电源开关可用遥控器控制。

注意

- 请勿堵塞通风口或通风孔。 (如果通风口或通风孔被报纸或布等堵塞,热量将 无法散出。)
- 请勿在本设备上放置任何裸露的火源,如点燃的蜡
- 处理废弃电池时,必须考虑环境问题,并严格遵守 当地关于处理废弃电池的有关法律或规定。
- 切勿将本装置暴露于雨水所及、潮湿、滴水或易于 溅起水花的地方,亦不要将任何装满液体的物件 (如花瓶)放置在本装置上。

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.
- 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.

镭射产品的重要说明

- 1. 一级镭射产品。
- 2. **注意**:请勿打开顶盖板,本机内部没有用户可自行维修的部件; 所有维修工作应由有资格的人员完成。
- 3. **注意**: 当内部锁定装置失效或者损坏后,打开盖板可能会产生可见或不可见的镭射辐射。应避免受到镭射光束的直接照射。
- 4. 标签的复制标示:注意标签位于机内。

CAUTION: Visible and invisible | ADVARSEL: Synlig og usynlig | VARNING: Synlig och | VARO: Anatlæssa ja supjalukitus | laser radiation when open and interlock failed or deteated | Advon Direct EXPOSURE TO | Under detected | Uniterlock teller interlocken fejler, den oppnas och spärrar at rakynälle ja rakynällmälle | AVOID DIRECT EXPOSURE TO | Under der detected | Uniterlocken fejler, den oppnas och spärrar at rakynällmälle | AVOID DIRECT EXPOSURE TO | Under detected | Uniterlocken fejler, den oppnas och spärrar at rakynällmälle | EAM. (e) strälien. (f) strälien. (s)

Caution: Proper Ventilation

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

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

注意:正确通风

为免发生触电和火警的危险,及防止本机受损,请将本机如下放置:

1. 前面: 没有障碍物及地方开阔。

2. 侧面/顶面/背面: 在图中所示范围中,不应放置任何障碍物。

3. 底部: 放置在水平面上。放置在一个高 10 厘米或以上的台上,以保持足够的通风道。

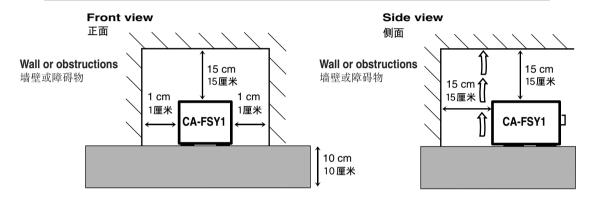


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Setting the built-in clock	34 35 36

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.
- The following marks tell you for which type of the discs the operation can be made.













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".

Special cautions

Notes on handling

Important cautions

Installation of the system

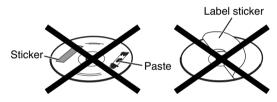
- Select a place which is level, dry and neither too hot nor too cold; between 5°C and 35°C.
- Leave sufficient distance between the system and the
- Do not use the system in a place subject to vibration.

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.



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

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

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
- 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)
- Batteries (2)
- FM antenna (1)
- AM loop antenna (1)
- Power cord (1)
- AC plug Adaptor (1) (except for Hong Kong)
- Composite video cord (1)
- Speaker cords (2)

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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

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 TEXT

CD-EXTRA

Discs you can play:

Discs you can play:				
Disc Type	Mark (Logo)	Video Format		
DVD VIDEO	VIDEO TM VIDEO	PAL/ NTSC		
DVD AUDIO	AUDIO/VIDEO AUDIO			
VCD	COMPACT Video CD	PAL/ NTSC		
SVCD	COMPACT VIDEO VIDEO SUPER VIDEO CD	PAL/ NTSC		
CD	COMPACT DIGITAL AUDIO	l		
CD-R	COMPACT DIGITAL AUDIO Recordable			
CD-RW	COMPACT DIGITAL AUDIO REWITADIE	_		

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 "3".

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, 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.

About discs (continued)

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.)

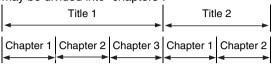
For JPEG files

- 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".



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).



VCD/SVCD/CD

VCD, SVCD and CD consist of "tracks".

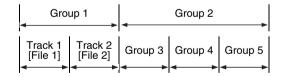
In general, each track has its own track number. (On some discs, each track may also be further divided by indexes.)



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 layers.

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

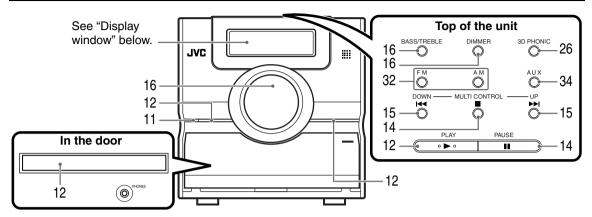


This product can recognize up to 1 000 tracks [files] in a disc. Also, the product can recognize up to 150 tracks [files] per group and up to 99 groups in a disc. Since the unit ignores the tracks [files] whose numbers are exceeding 150 and the groups whose numbers are exceeding 99, they cannot be played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

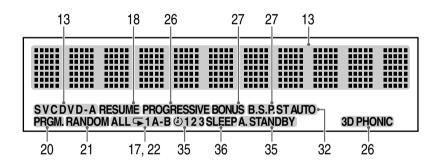
The numbers represent the page numbers.

Front panel

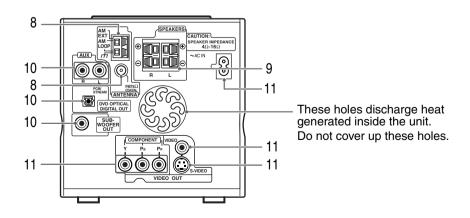


* Connect headphones (not supplied) with a stereo mini plug. If the headphones are connected, the speakers and subwoofer will not produce any sound.

Display window

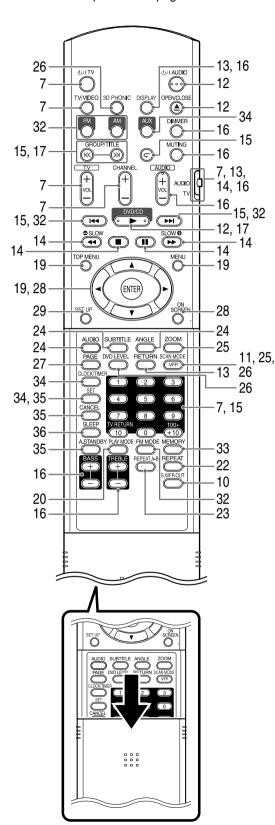


Rear panel

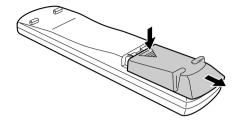


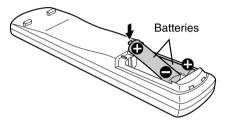
Using the remote control

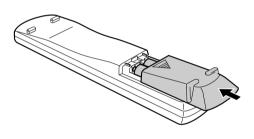
The numbers represent the page numbers.



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.

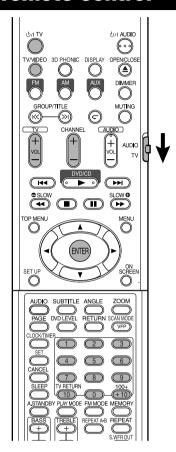
Remote control operation

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/ITV.

NOTE

Keep pressing down U/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 ७/| TV.

For TV operation

Operate the remote control by pointing it towards the TV.

⊕/ITV	Turn ON/OFF the power.	
CHANNEL +	Change channels.	
TV + VOL	Adjust volume.	
1 ~ 9 / 100+ 0 / + 10	AUDIO TV 1	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.

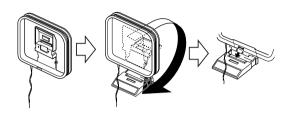
NOTE

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

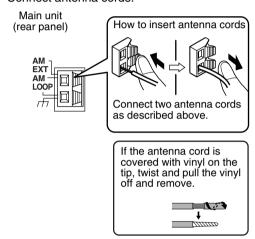
Connecting antennas

Connecting AM loop antenna (supplied)

1 Set up the AM loop antenna.

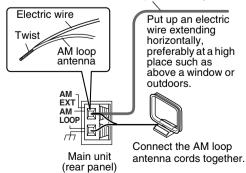


2 Connect antenna cords.

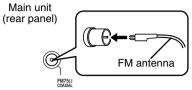


- 3 Turn the AM loop antenna to the direction of the best radio reception.
 - Locate the AM loop antenna as far away from the main unit as possible.
 - Do not locate the AM loop antenna on a metallic table or close to a TV, personal computer, etc.
 Otherwise it may result in bad radio reception.
- When good radio reception cannot be obtained with the supplied AM loop antenna

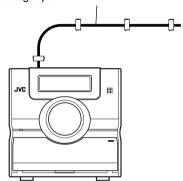
Electric wire: 3 - 5 m (commercially available)



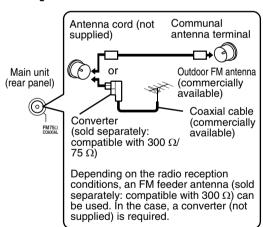
Connecting FM antenna (supplied)



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



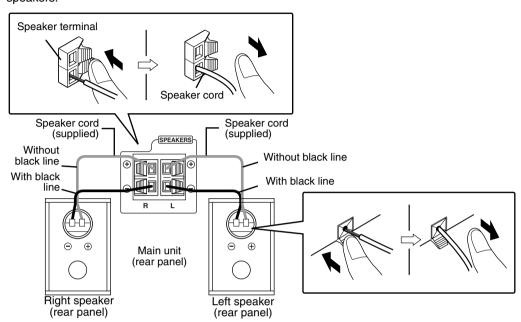
When good radio reception cannot be obtained with the supplied antenna or when using a communal antenna



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

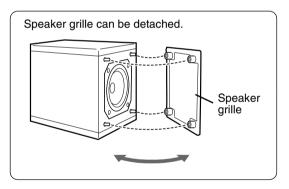
Connecting speakers

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.
 - 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 between the TV and the speakers.



NOTE

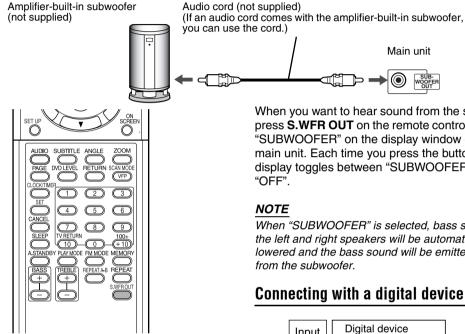
- Impedance of speaker that can be connected to the main unit is within a range of 4 Ω to 16 Ω .
- In order to have a sufficient cooling effect, leave a space of more than 1 cm between the main unit and the speakers or other objects.

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.



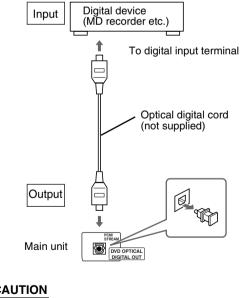
When you want to hear sound from the subwoofer, press S.WFR OUT on the remote control to display "SUBWOOFER" on the display window on the main unit. Each time you press the button, the display toggles between "SUBWOOFER" and "OFF".

Main unit

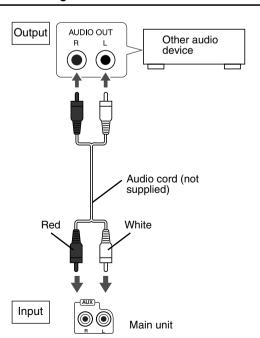
NOTE

When "SUBWOOFER" is selected, bass sound from the left and right speakers will be automatically lowered and the bass sound will be emitted mainly from the subwoofer.

Connecting with a digital device



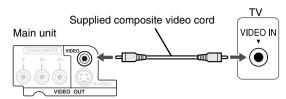
Connecting with other audio device



CAUTION

- · For details of signals to be output, refer to page
- · 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.

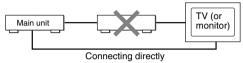
Connecting with TV



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.

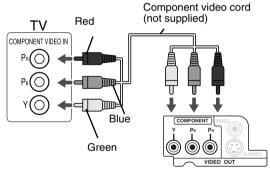


Also, when connecting the main unit to a TV with a VCR built in, there may be picture distortion while playing.

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

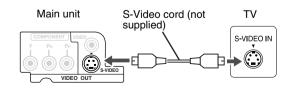
Connecting by using the component video cord

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



Main unit

Connecting by using the S-Video cord



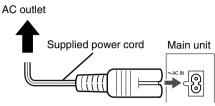
CAUTION

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.

Selecting an AM interval spacing

You can change the AM interval spacing.

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

- Before doing the following procedure, select AM as source, then turn off the unit.
- · Use the buttons on the main unit.

To set the AM tuner to the 10 kHz spacing:

While holding ►►I, press STANDBY/ON ७/I.

To set the AM tuner to the 9 kHz spacing:

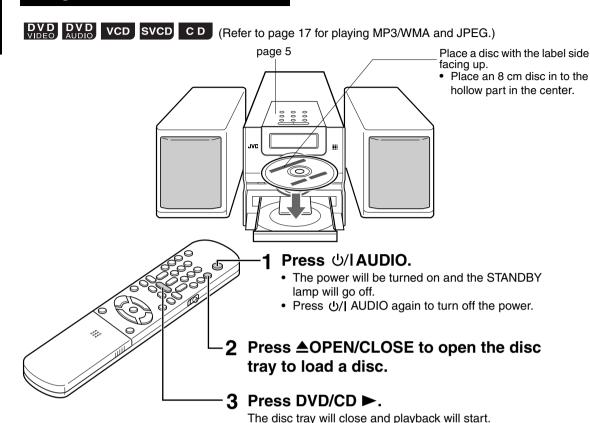
While holding I◄◄, press STANDBY/ON ७/I.

Changing the color system

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

- 1 Press and hold VFP for 4 seconds while the system is turned off (on standby).
- 2 Press cursor **◄/►** to select the video output.
- 3 Press ENTER to set the video output.

Playback



The power will be turned on when any of PLAY
 ►, FM, AM, AUX, or ≜ on the main unit and
 DVD/CD ►, 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).

NOTE

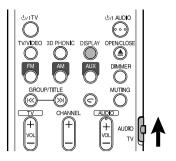
- A menu screen may be displayed on the TV after starting playback of a DVD/VCD/SVCD. In this case, select a desired item to playback by using the following buttons on the remote control.
 - Select a desired item using cursor ▲/►/▼/ ◄
 and press ENTER.
 - Select a desired item using the number buttons.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



Screens displayed on the TV when the power is turned ON.

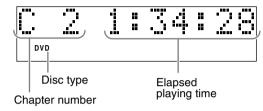
The following messages appear depending on the status of the system. (When FM, AM or AUX is selected as a source, the messages do not appear.)

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



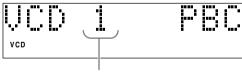
Ex.: When a DVD AUDIO is played



Track number

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

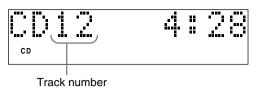
Ex.: When an SVCD or VCD is played



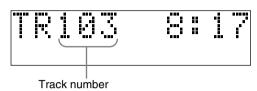
Track number

- 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



Ex.: When an MP3/WMA file is played

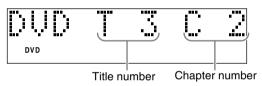


To switch the display

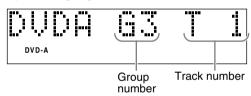
Press DISPLAY.

Each time you press the button, the display indication changes temporarily as follows:

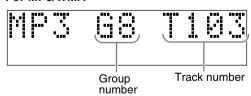
For DVD VIDEO



For DVD AUDIO



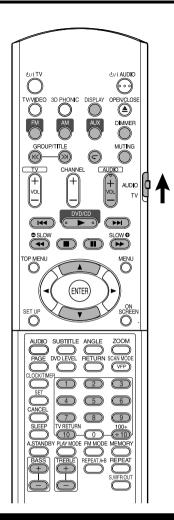
For MP3/WMA



For SVCD/VCD/CD

The clock time indication appears on the display window.

- Before setting the clock (page 34), "0:00" 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



NOTE

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

 Tors NOS CONTROL TO THE PROPERTY OF THE PROPERTY
- 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



Press ■ during playback.

To pause playback



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



Press II during pause.

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

Fast reverse/Fast forward search



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 ►.

NOTE

- 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)



Press \subset during playback.

NOTE

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

Slow Motion Playback



Press SLOW or SLOW during pause.

- Each time you press the button, the playback speed increases ($\times 1/32$, $\times 1/16$, $\times 1/8$, $\times 1/4$,
- 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 DVD VCD SVCD C D MP3 JPEG



Press | ◀ or ▶ b | 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
- During playback of a JPEG disc, press ►►I or cursor ▼ to play the next file, or press I◄◄ or cursor \(\Lambda \) to play the previous file.

NOTE

- 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.

How to use the number buttons

Ex.:

5: 5

15: (+10) → (5)

20: (+10) → (10)

25: $(+10) \rightarrow (+10) \rightarrow (5)$



Guide icons displayed on the TV screen (On-screen guide)

: Plav

: Pause





: Fast reverse/Fast forward search



: Slow Motion Playback (reverse/ forward directions)



: Containing multi-angle views (page 24)



Containing multi-audio languages (page 24)



: Containing multi-subtitle languages (page 24)

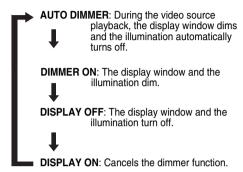


: The disc cannot accept the operation you have attempted.

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 +/-.

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

Adjusting sound quality

Bass: Press BASS +/-. Treble: Press TREBLE +/-.

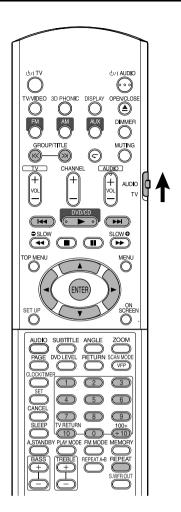
Adjustable range: -5 to +5

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

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

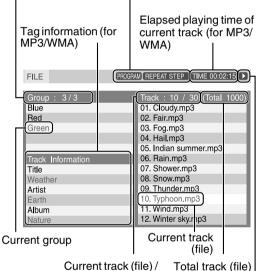
For a JPEG disc, read "track" as "file".

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)



Playback status

number on disc

2 Press cursor **▲**/▼ to select a group.

total track (file)

group

number on current

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

5 Press DVD/CD **▶** 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).
- I◀◀ or ▶►I can also be used in Step **4**. In this case, Step **5** is not needed.

Repeat playback

MP3 WMA

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
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 all ⊊

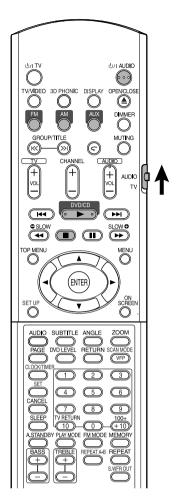
2 Press DVD/CD ▶.

NOTE

- 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).

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.



NOTE

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



DVD DVD 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/ AUDIO to turn off the power.

Change the source to 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.

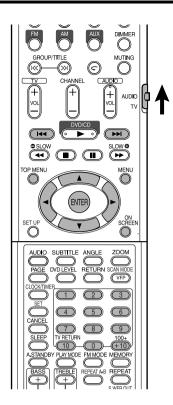


To start playback from the stored position

Press DVD/CD ▶.

NOTE

- 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).



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 |◄◄ or ►► | 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)

DVD DVD VCD SVCD CD

1 Press ON SCREEN twice during playback².

The menu bar will be displayed (page 28).

- 2 Press cursor ◀ /► to select ④ .
- **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.

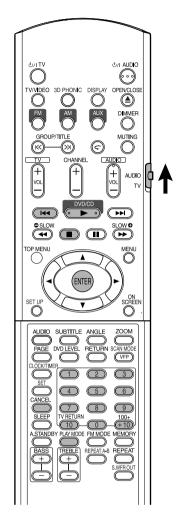
5 Press ENTER.

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.





NOTE

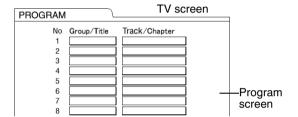
Set the remote control mode selector to **AUDIO** before using the number buttons.



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.

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



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)

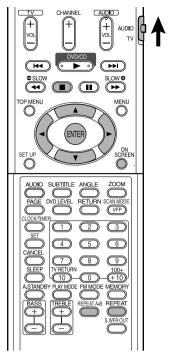
- 1 Press PLAY MODE repeatedly to display "RANDOM" on the display window on the main unit while the disc is stopped.
 - "RANDOM" will also be displayed on the TV screen.

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◄◄ 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)



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 ⊊1
Current title	TITLE	REP TTL
Cancel	OFF	REP OFF

For DVD AUDIO

Repeat items	On the TV	On the display window
Current track	TRACK	REP TRK
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
All tracks	ALL	REP ALL
Cancel	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 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	STEP or REPEAT STEP	REP STEP
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)



1 Press ON SCREEN twice during playback.

The menu bar (page 28) will be displayed.

- 2 Press cursor <-/>
 ✓/► to select
 color: |.
- **3** Press ENTER.
- 4 Press cursor ▲/▼ to display

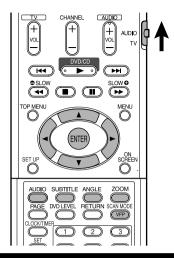
A−B .

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 <u>A-B</u> 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 🖒 A-B | and press **ENTER** twice.

NOTE

- 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.



Selecting the subtitles

DVD SVCD DVD AUDIO

(only for moving image)

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

Ex.:



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

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

- For a language code such as "AA", refer to "Language codes" (page 38).
- 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

DVD DVD VCD SVCD

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

Ex.:



- 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 38).
- "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.

Ex.:



- 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







(only for moving image)

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 $\triangleright/\triangle/\blacktriangleleft/\blacktriangledown$.

• To resume normal playback, select "ZOOM OFF" in Step 1.

Adjusting the picture







Press VFP during playback or while paused.

The current setting will be displayed on the TV screen.



- 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

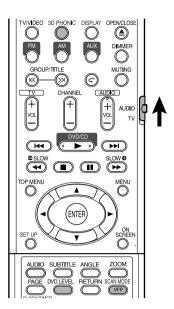
- It is recommended to select "NORMAL" usually, or "CINEMA" in a dark room. When either "NORMAL" or "CINEMA" is selected, go to Step 7.
- When either "USER 1" or "USER 2" is selected, the adjustment can be carried out in detail in the operations after Step 3.
- 3 Press cursor **▲/▼** to select an item to be adjusted.
- 4 Press ENTER.



- 5 Press cursor **△**/**▼** to change the value.
- 6 Press ENTER. To adjust other items, go back to Step 3.
- 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)











The two speakers produce an effect resembling surround-sound.

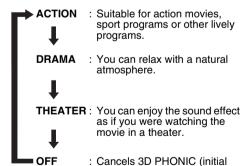
Press 3D PHONIC during playback.

Ex.:

TV screen

3D PHONIC OFF

 Each time you press the button, the 3D PHONIC will be alternated as follows:



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

setting).

NOTE

- 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)

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

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
- 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

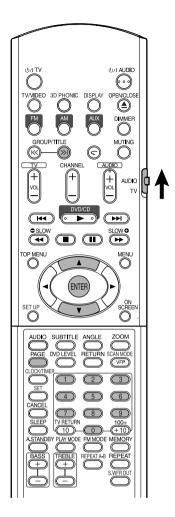
Progressive mode:

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.





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.

- 1 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.

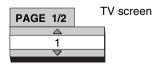
NOTE

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

1 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 $\blacktriangle/\blacktriangledown$.

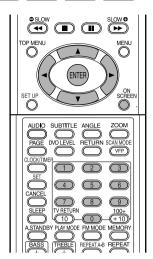
Ex.:



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

Using the menu bar





NOTE

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

 TV
- 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.



The above is an example for a DVD VIDEO.

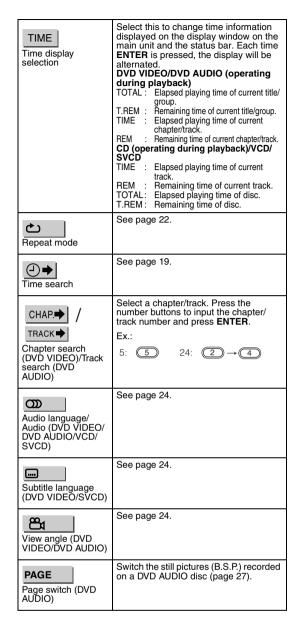
2 Press cursor **◄/►** to select an item to be operated.

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.

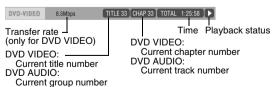
Functions list

For the functions with no special description for the operations, press cursor ▲/▼ to select, and press ENTER to determine.



Information displayed on the status bar

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



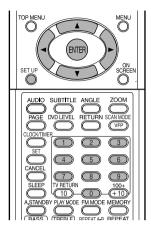
VCD/SVCD/CD (the example below is for a CD)



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.

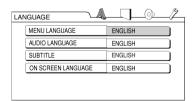
NOTE

- 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.



LANGUAGE

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 38).

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. 16:9/16:9 MULTI: 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/4:3 MULTI 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/4:3 MULTI 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.)
	By selecting "MULTI" mode, the color system of the System changes automatically to match that of the loaded disc.
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.



RESUME Select ON /OFF. (page 18) ON SCREEN GUIDE 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	Items	Contents (: initial setting)
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):	RESUME	Select ON /OFF. (page 18)
violent scenes or replace the scenes with others. (This is effective only for discs equipped with the Parental Lock function.) COUNTRY CODE (page 31):	SCREEN	Select ON /OFF. (page 15)
		violent scenes or replace the scenes with others. (This is effective only for discs
23.33. 304.14.		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.		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
If you enter a wrong password three times, "EXIT" will be automatically selected.		times, "EXIT" will be automatically

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 P	CM	
48/96/192 kHz, 16/20/24 bits linear PCM DVD AUDIO	10	Ki iz, To bilo oloroo iiiloar i	O.W.	
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			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 k	oits linear PCM	
MP3/WMA disc	32/44.1	/48 kHz, 16 bits stereo line	ar PCM	

NOTE

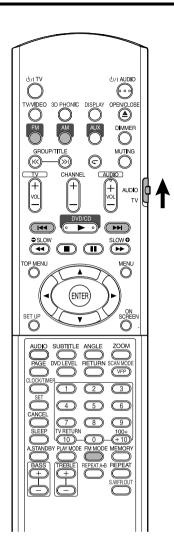
- For a DVD VIDEO: There is a 20 bit or 24 bit output for DVD VIDEO without content protection set.
- For a DVD AUDIO: There is no output for DVD AUDIO with content protection set.

AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
Al	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
ВН	Bahrain
BI	Burundi
BJ	Benin
BM	Bermuda
BN	Brunei Darussalam
ВО	Bolivia
BR	Brazil
BS	Bahamas
BT	Bhutan
BV	Bouvet Island
RW	l Botswana
BW	Botswana Belarus
BY	Belarus
BY BZ	Belarus Belize
BY BZ CA	Belarus Belize Canada
BY BZ	Belarus Belize Canada Cocos (Keeling)
BY BZ CA CC	Belarus Belize Canada Cocos (Keeling) Islands
BY BZ CA	Belarus Belize Canada Cocos (Keeling)
BY BZ CA CC	Belarus Belize Canada Cocos (Keeling) Islands
BY BZ CA CC	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic
BY BZ CA CC	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo
BY BZ CA CC CF CF	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland
BY BZ CA CC CF CG CH CI	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire
BY BZ CA CC CF CG CH CI CK	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands
BY BZ CA CC CF CG CH CI CK CL	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile
BY BZ CA CC CF CG CH CI CK CL CM	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon
BY BZ CA CC CF CG CH CI CK CL CM CN	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China
BY BZ CA CC CF CG CH CI CK CL CM CN CO	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia
BY BZ CA CC CF CG CH CI CK CL CM CN	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China
BY BZ CA CC CF CG CH CI CK CL CM CN CO	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba
BY BZ CA CC CF CG CH CI CK CL CM CN CO CR CU	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba
BY BZ CA CC CF CG CH CI CK CL CM CN CO CR CU CV	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde
BY BZ CA CC CF CG CH CI CK CL CM CO CO CR CO CCR CU CV CX	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island
BY BZ CA CC CF CG CH CI CK CL CM CN CO CR CU CV CX CY	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus
BY BZ CA CC CF CG CH CI CK CL CM CN CO CR CU CV CX CY CZ	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic
BY BZ CA CC CF CG CH CI CK CL CM CN CO CR CU CV CY CZ DE	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany
BY BZ CA CC CF CG CH CI CK CL CM CO CR CU CV CZ DE DJ	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti
BY BZ CA CC CF CG CH CI CK CL CM CO CR CU CV CZ DE DJ DK	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark
BY BZ CA CC CF CG CH CI CK CL CM CO CR CU CV CY CY CZ DE DJ DK DM	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic 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
BY BZ CA CC CF CG CH CI CK CL CM CN CO CR CU CV CX CY DE DJ DK DM DO	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark
BY BZ CA CC CF CG CH CI CK CL CM CO CR CU CV CY CY CZ DE DJ DK DM	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic 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
BY BZ CA CC CF CG CH CI CK CL CM CN CO CR CU CV CX CY DE DJ DK DM DO	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic 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
BY BZ CA CC CF CG CH CI CK CL CM CO CR CU CY CZ DE DJ DK DM DO DZ EC	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic 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 Dominican Republic Algeria Ecuador
BY BZ CA CC CF CG CH CI CK CL CM CO CR CU CV CZ DE DJ DK DM DO DZ EC EE	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic 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 Dominican Republic Algeria Ecuador Estonia
BY BZ CA CC CF CG CH CI CK CL CM CN CO CR CU CV CZ DE DJ DK DM DO DZ EC EE EG	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic 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 Dominican Republic Algeria Ecuador Estonia Egypt
BY BZ CA CC CF CG CH CI CK CL CM CO CR CU CV CZ DE DJ DK DM DO DZ EC EE	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic 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 Dominican Republic Algeria Ecuador Estonia

ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands
	(Malvinas)
FM	Micronesia
' '*'	(Federated States of)
	Faroe Islands
FO	
FR	France
FX	France, Metropolitan
GA	Gabon
GB	United Kingdom
GD	Grenada
GE	Georgia
GF	French Guiana
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe
GQ	Equatorial Guinea
GR	Greece
GS	South Georgia and
	the South Sandwich
	Islands
GT	Guatemala
GU	Guam
GW	Guinea-Bissau
GY	Guyana
HK	Hong Kong
НМ	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
JP	Japan
	<u> </u>
KE	Kenya
KG	Kyrgyzstan
KH	Cambodia
KI	Kiribati
KM	Comoros
KN	Saint Kitts and Nevis
KP	Korea, Democratic
	People's Republic of
KR	Korea, Republic of
KW	Kuwait
KY	Cayman Islands
KZ	Kazakhstan
LA	Lao People's
	Democratic Republic
LB	Lebanon

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

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



NOTE

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



Selecting a station

- 1 Press FM or AM.
- 2 Press ►►//◄◄ to select the station (frequency).

Automatic tuning:

Hold down ►►I/I◄◄ 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/I◄◄.

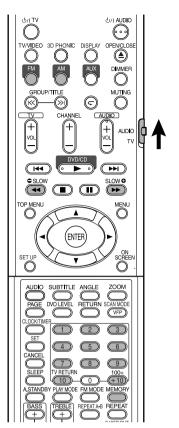
Manual tuning:

Each time you press ►►\/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.



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.

- 1 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.

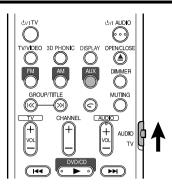
Tuning in to a preset station

- 1 Press FM or 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 ►►/◄<.

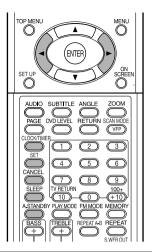
Listening to the sound of other audio device



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.
- 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.

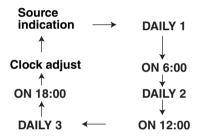
When the on-time comes:

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:



- 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:



- 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 or AUX, Auto Standby does not work.

Setting the Various Timer (continued)

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 ▲ (open/close) with ■ (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.
 - → 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".
 - \rightarrow 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.
 - → Press **S.WFR OUT** to turn on (page 10).

About radio

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

Troubleshooting (continued)

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 36

"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.

Language codes

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 AZ	Aymara	MT MY	Maltese
BA	Azerbaijani Bashkir	NA	Burmese
BE	Byelorussian	NE	Nauru Nepali
BG	Bulgarian	NL	Dutch
BH	Bihari	NO	Norwegian
BI	Bislama	OC	Occitan
BN	Bengali, Bangla	OM	(Afan) Oromo
ВО	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 FO	Fiji	SH	Serbo-Croatian
FY	Faroese Frisian	SK	Singhalese Slovak
GA	Irish	SL	Slovak
GD	Scots Gaelic	SM	Samoan
GL	Galician	SN	Shona
GN	Guarani	SO	Somali
GU	Gujarati	SQ	Albanian
НА	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 KA	Javanese	TL TN	Tagalog
KK	Georgian Kazakh	TO	Setswana Tonga
KL	Greenlandic	TR	Turkish
KM	Cambodian	TS	Tsonga
KN	Kannada	TT	Tatar
KO	Korean (KOR)	TW	Twi
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
LV	Latvian, Lettish	YO	Yoruba
MG	Malagasy	ZU	Zulu
MI	Maori		

General

Power source: AC 110-240 V \sim , 50/60 Hz

For Hong Kong only:

AC 220 V ∼, 50 Hz 25 W (in operation) 1.3 W (on standby)

Weight: 2.7 kg

External dimensions

Power consumption:

(W x H x D): 150 mm x 152 mm x 246 mm

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: PAL/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:

For PAL 0.3 V (p-p)/75 Ω For NTSC 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:

18 W per channel, min. RMS, at 4 Ω at 1 kHz with no more than 10% total harmonic distortion

 $\begin{array}{lll} \mbox{Fitting impedance:} & 4~\Omega~\mbox{to 16}~\Omega \\ \mbox{Headphones x1:} & 11~\mbox{mW/32}~\Omega \\ \mbox{Fitting impedance:} & 16~\Omega~\mbox{to 1}~\mbox{k}\Omega \\ \mbox{Subwoofer x1:} & 500~\mbox{mVrms/10}~\mbox{k}\Omega \end{array}$

Digital sound output:

Optical x1: —21 dBm to –15 dBm

Audio input

Sound input: AUX x1

400 mV/50 k Ω

Tuner

FM tuner:

Receiving frequency: 87.5 MHz to 108.0 MHz Antenna: 75 Ω - Unbalanced type

AM tuner:

Receiving frequency: 530 kHz to 1 710 kHz

(at 10 kHz interval spacing) 531 kHz to 1 710 kHz

(at 9 kHz interval spacing) External antenna jack (loop

antenna)

Speaker

Antenna:

Type: Full range

1-way bass-reflex type Magnetically shielded type

Speaker: 8 cm cone x1 Frequency response: 60 to 20 000 Hz

Power handling capacity: 20 W Impedance: 4 Ω Sound pressure level: 81 dB/W·m

Dimension (W x H x D): 120 mm x 150 mm x 188 mm

Weight (1 unit): 1.5 kg

Designs and Specifications are subject to change without notice.

JVC

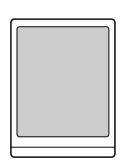
JVC

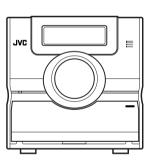


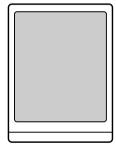
FS-Y1

Consists of CA-FSY1 and SP-FSY1 Consta de CA-FSY1 y SP-FSY1 Consiste em CA-FSY1 e SP-FSY1

















¡ATENCION!

Antes de operar su equipo, lea cuidadosamente este instructivo.

INSTRUCTIONS MANUAL DE INSTRUCCIONES INSTRUÇÕES

Warnings, Cautions and Others Avisos, precauciones y otras notas Advertências, precauções e outras notas

CAUTION—STANDBY/ON U/| button!

Disconnect the mains plug to shut the power off completely (all lamps and indications go off). The STANDBY/ON **७/I** button in any position does not disconnect the mains line.

- When the unit is on standby, the STANDBY/ON lamp lights in red
- When the unit is turned on, the STANDBY/ON lamp lights in green.

The power can be remote controlled.

CAUTION

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

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

CAUTION

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

PRECAUCIÓN—Botón STANDBY/ON U/I!

Desconecte el enchufe tomacorriente para desconectar la alimentación completamente (se apagan todas las lámparas e indicaciones). Ninguna posición del botón STANDBY/ON U/I conseguirá desconectar la red de alimentación eléctrica.

- Cuando la unidad está en espera, la lámpara STANDBY/ON se enciende en rojo.
- Cuando la unidad está encendida, la lámpara STANDBY/ON se apaga.

La alimentación puede controlarse mediante control remoto.

PRECAUCIÓN

Para reducir riesgos de choques eléctricos, incendio, etc.:

- 1. No extraiga los tornillos, los cubiertas ni la caja.
- 2. No exponga este aparato a la lluvia o a la humedad.

PRECAUCIÓN

- No obstruya las rendijas o los orificios de ventilación. (Si las rendijas o los orificios de ventilación quedan tapados con un periódico, un trozo de tela, etc., no se podrá disipar el calor).
- No ponga sobre el aparato ninguna llama al descubierto, como velas encendidas.
- Cuando tenga que descartar las pilas, tenga en cuenta los problemas ambientales y observe estrictamente los reglamentos o las leyes locales sobre disposición de las pilas.
- No exponga este aparato a la lluvia, humedad, goteos o salpicaduras. Tampoco ponga recipientes conteniendo líquidos, como floreros, encima del aparato.

CUIDADO—botão STANDBY/ON (b/I!

Desligue a ficha da tomada da parede para desligar completamente a alimentação (todas asluzes e indicadores apagam-se). O botão STANDBY/ON U/I, quer esteja premido ou solto, não desliga a alimentacao principal.

- Quando a unidade estiver em standby, a luz STANDBY/ON fica vermelha.
- Quando a unidade estiver ligada, a luz STANDBY/ON fica verde

O aparelho pode ser ligado através da unidade de controlo remoto.

PRECAUCÃO

Para reduzir riscos de choques elétricos, incêndio, etc.:

- 1. Não remova parafusos e tampas ou desmonte a caixa.
- 2. Não exponha este aparelho à chuva nem à umidade.

PRECAUÇÃO

- Não obstrua as aberturas e orifícios de ventilação.
 (Se os orifícios ou aberturas de ventilação estiverem obstruídos por qualquer papel ou tecido, não haverá circulação do ar quente.)
- Não coloque nenhum objeto com chamas, como velas acesas, sobre o aparelho.
- Ao descartar as baterias, leve em consideração os problemas que possam ser causados ao meio ambiente e os regulamentos e leis locais e governamentais sobre recolhimento dessas baterias devem ser rigorosamente seguidos.
- Não exponha este aparelho à chuva, umidade, pingos ou esguichos de água, nem coloque em cima do mesmo qualquer tipo de recipiente que contenha líquidos, como por exemplo vasos.

CAUTION: Proper Ventilation

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

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

PrecauciÓn: Ventilación correcta

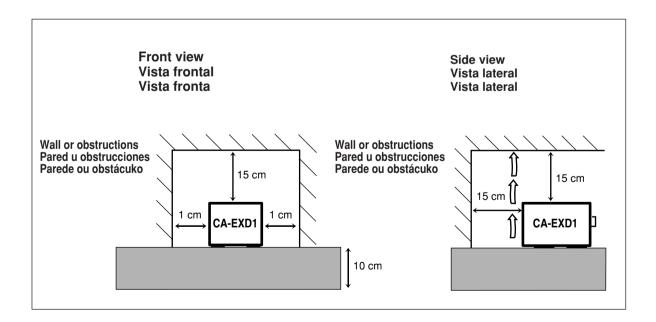
Para evitar el riesgo de descargas eléctricas e incendio y prevenir posibles daños, instale el equipo en un lugar que cumpla los siguientes requisitos:

- 1. Parte frontal: Sin obstrucciones, espacio abierto.
- 2. Lados/parte superior/parte posterior: No debe haber ninguna obstrucción en las áreas mostradas por las dimensiones de la siguiente figura.
- 3. Parte inferior: Sitúe el equipo sobre una superficie nivelada. Mantenga un espacio adecuado para permitir el paso del aire y una correcta ventilación, situando el equipo sobre un soporte de 10 o más cm de allura.

PRECAUÇÃO: Ventilação adequada

Para evitar riscos de choques elétricos e incêndios, e prevenir avarias, instale o aparelho como segue:

- 1. Parte frontal: Sem obstruções e espaços abertos.
- 2. Partes laterais/ Tampa/ Posterior: Nenhuma obstrução deverá ser colocada entre as áreas cujas dimensões são indicadas abaixo.
- 3. Parte inferior: Instale-o sobre uma superfície plana. Deverá ser mantido espaço suficiente para a ventilação se este for instalado numa posição que tenha uma altura de 10 cm ou mais.



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.
- CAUTION: Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
- 4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED INSIDE UNIT.

IMPORTANTE PARA PRODUCTOS LÁSER

- 1. PRODUCTO LÁSER CLASE 1
- PRECAUCIÓN: No abra la tapa superior. En el interior de la unidad no hay piezas que pueda reparar el usuario; encargue el servicio a personal técnico cualificado.
- PRECAUCIÓN: Radiación láser visible e invisible en caso de apertura o con interbloqueo averiado o defectuoso. Evite la exposición directa a los haces.
- REPRODUCCIÓLN DE LA ETIQUETA: ETIQUETA DE PRECAUCIÓN, COLOCADA EN EL INTERIOR DE LA UNIDAD.

PARA PRODUTOS LASER, IMPORTANTE

- 1. PRODUTO LASER DE CLASSE 1
- PRECAUÇÃO: não abrir a cobertura superior. Dentro da unidade não existem partes cuja manutenção tenha de ser feita pelo usuário; deixe qualquer manutenção a cargo do pessoal de serviço qualificado.
- PRECAUCAO: radiação laser visível e invisível quando se abre e com a conexão interna em falha ou frustrada. Evite a exposição direta ao raio.
- 4. REPRODUÇÃO DE ETIQUETA: ETIQUETA DE AVISO SITUADA NO INTERIOR DA UNIDADE.

CAUTION : Visible and invisible
laser radiation when open and
interlock failed or defeated.ADVARSEL : Synlig og usynlig
laserstråling når maskinen er
interlock failed or defeated.VARO : Avattaessa ja suojalukitus
osynlig laserstrålning när
den öppnas och spärren är
urkopplad.VARO : Avattaessa ja suojalukitus
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BEAM.Undgå direkte eksponering til
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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.
- The following marks tell you for which type of the discs the operation can be made.













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".

Special cautions

Notes on handling

Important cautions

Installation of the system

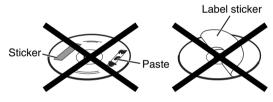
- Select a place which is level, dry and neither too hot nor too cold; between 5°C and 35°C.
- Leave sufficient distance between the system and the
- Do not use the system in a place subject to vibration.

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.



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

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

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
- 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)
- Batteries (2)
- FM antenna (1)
- AM loop antenna (1)
- Power cord (1)
- AC plug Adaptor (1)
- Composite video cord (1)
- Speaker cords (2)

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symbol are trademarks of Dolby Laboratories.
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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-EXTRA

CD-G CD TEXT

Discs you can play:

Discs you can play.			
Disc Type	Mark (Logo)	Video Format	
DVD VIDEO	VIDEO TM VIDEO	PAL/ NTSC	
DVD AUDIO	AUDIO/VIDEO AUDIO	l	
VCD	COMPACT Video CD	PAL/ NTSC	
SVCD	COMPACT VIDEO VIDEO SUPER VIDEO	PAL/ NTSC	
CD	COMPACT DIGITAL AUDIO	l	
CD-R	COMPACT DIGITAL AUDIO Recordable	_	
CD-RW	COMPACT CISC 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 "4".

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.

About discs (continued)

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.)

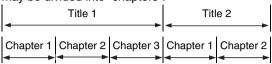
For JPEG files

- 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".



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).



VCD/SVCD/CD

VCD, SVCD and CD consist of "tracks".

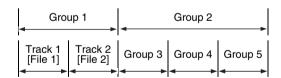
In general, each track has its own track number. (On some discs, each track may also be further divided by indexes.)



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 layers.

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

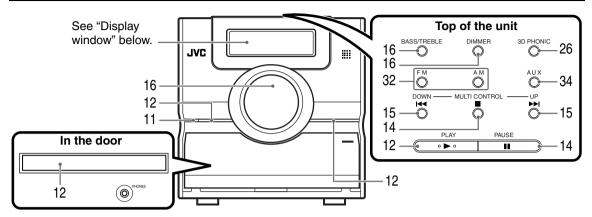


This product can recognize up to 1 000 tracks [files] in a disc. Also, the product can recognize up to 150 tracks [files] per group and up to 99 groups in a disc. Since the unit ignores the tracks [files] whose numbers are exceeding 150 and the groups whose numbers are exceeding 99, they cannot be played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

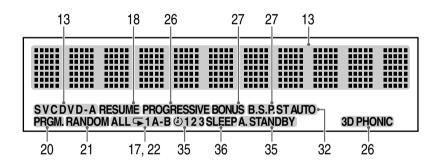
The numbers represent the page numbers.

Front panel

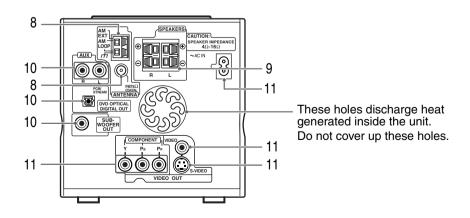


* Connect headphones (not supplied) with a stereo mini plug. If the headphones are connected, the speakers and subwoofer will not produce any sound.

Display window

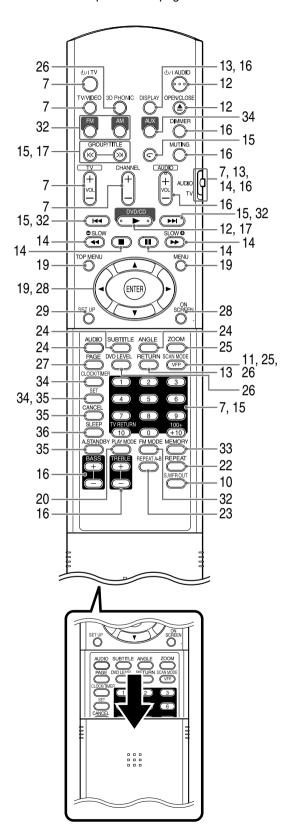


Rear panel

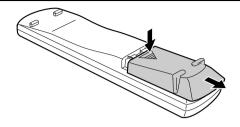


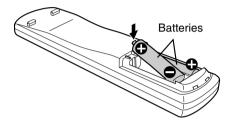
Using the remote control

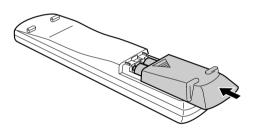
The numbers represent the page numbers.



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.

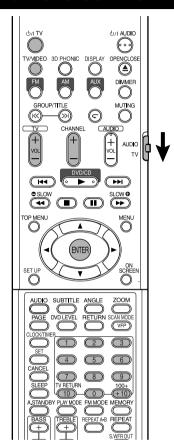
Remote control operation

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/ITV.

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 ७/| TV.

For TV operation

Operate the remote control by pointing it towards the TV.

tile i v.				
Ů/ITV	Turn ON/OFF the power.			
CHANNEL +	Change channels.			
TV + VOL	Adjust volume.			
1 ~ 9 / 100+ 0 / + 10	AUDIO TV 1	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.

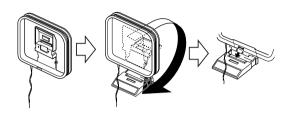
NOTE

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

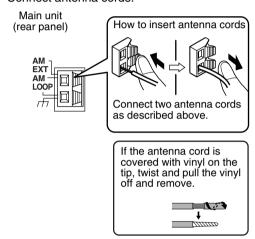
Connecting antennas

Connecting AM loop antenna (supplied)

1 Set up the AM loop antenna.

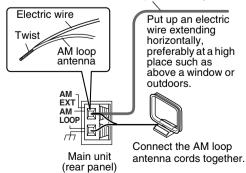


2 Connect antenna cords.

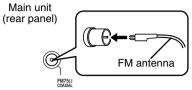


- 3 Turn the AM loop antenna to the direction of the best radio reception.
 - Locate the AM loop antenna as far away from the main unit as possible.
 - Do not locate the AM loop antenna on a metallic table or close to a TV, personal computer, etc.
 Otherwise it may result in bad radio reception.
- When good radio reception cannot be obtained with the supplied AM loop antenna

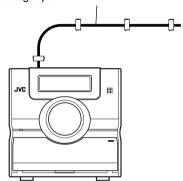
Electric wire: 3 - 5 m (commercially available)



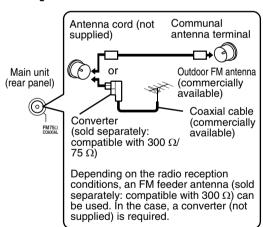
Connecting FM antenna (supplied)



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



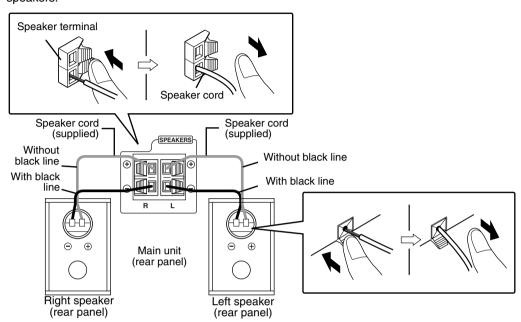
When good radio reception cannot be obtained with the supplied antenna or when using a communal antenna



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

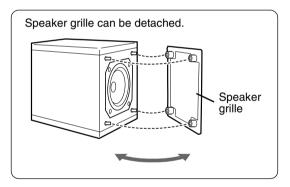
Connecting speakers

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.
 - 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 between the TV and the speakers.



NOTE

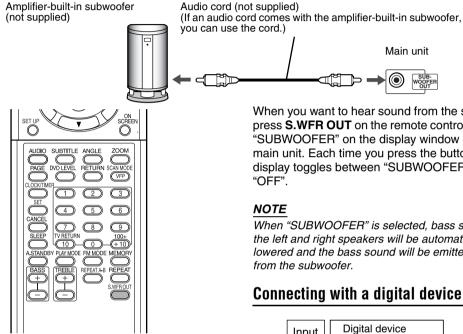
- Impedance of speaker that can be connected to the main unit is within a range of 4 Ω to 16 Ω .
- In order to have a sufficient cooling effect, leave a space of more than 1 cm between the main unit and the speakers or other objects.

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.



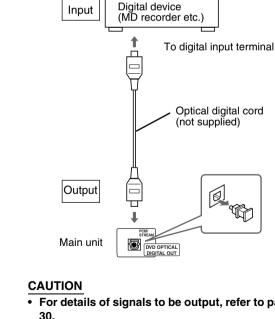
When you want to hear sound from the subwoofer, press S.WFR OUT on the remote control to display "SUBWOOFER" on the display window on the main unit. Each time you press the button, the display toggles between "SUBWOOFER" and "OFF".

Main unit

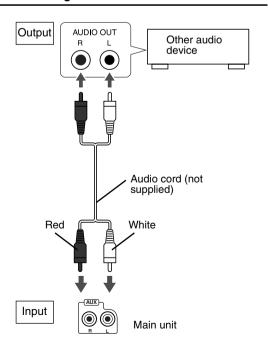
NOTE

When "SUBWOOFER" is selected, bass sound from the left and right speakers will be automatically lowered and the bass sound will be emitted mainly from the subwoofer.

Connecting with a digital device

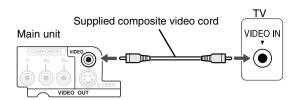


Connecting with other audio device



- · For details of signals to be output, refer to page
- · 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.

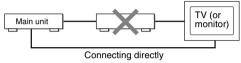
Connecting with TV



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.

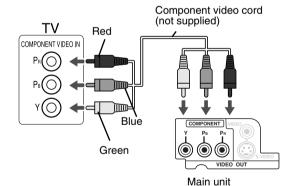


Also, when connecting the main unit to a TV with a VCR built in, there may be picture distortion while playing.

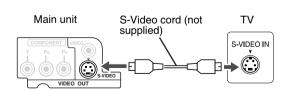
You can enjoy pictures of better quality using the following cord instead of the supplied video cord.

Connecting by using the component video cord

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



Connecting by using the S-Video cord



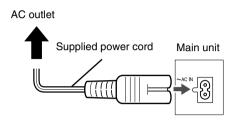
CAUTION

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.

Selecting an AM interval spacing

You can change the AM interval spacing.

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

- Before doing the following procedure, select AM as source, then turn off the unit.
- · Use the buttons on the main unit.

To set the AM tuner to the 10 kHz spacing:

While holding ►►I, press STANDBY/ON ७/I.

To set the AM tuner to the 9 kHz spacing:

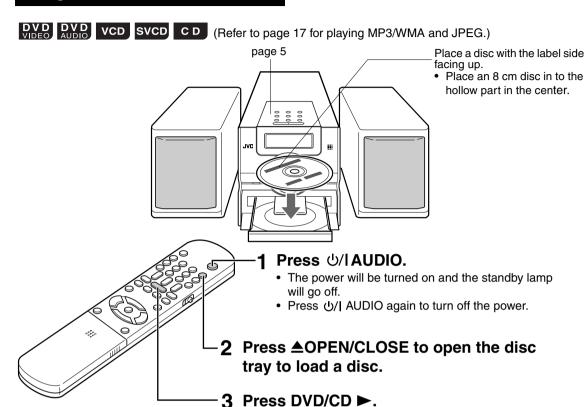
While holding l◄◄, press STANDBY/ON ৩/I.

Changing the color system

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

- 1 Press and hold **VFP** for 4 seconds while the system is turned off (on standby).
- 2 Press cursor **◄/►** to select the video output.
- 3 Press ENTER to set the video output.

Playback



The power will be turned on when any of PLAY
 ▶, FM, AM, AUX, or ▲ on the main unit and
 DVD/CD ▶, 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).

NOTE

The disc tray will close and playback will start.

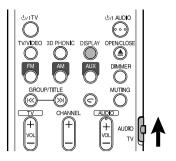
- A menu screen may be displayed on the TV after starting playback of a DVD/VCD/SVCD. In this case, select a desired item to playback by using the following buttons on the remote control.
 - Select a desired item using cursor ▲/▼/◄/►
 and press ENTER.
 - Select a desired item using the number buttons.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



Screens displayed on the TV when the power is turned ON.

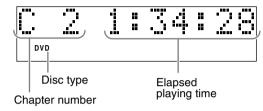
The following messages appear depending on the status of the system. (When FM, AM or AUX is selected as a source, the messages do not appear.)

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



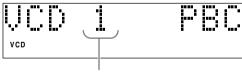
Ex.: When a DVD AUDIO is played



Track number

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

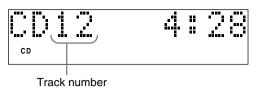
Ex.: When an SVCD or VCD is played



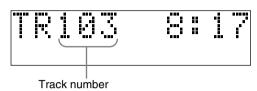
Track number

- 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



Ex.: When an MP3/WMA file is played

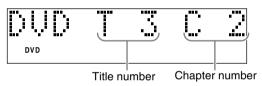


To switch the display

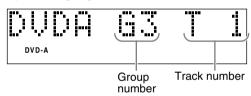
Press DISPLAY.

Each time you press the button, the display indication changes temporarily as follows:

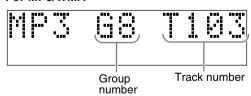
For DVD VIDEO



For DVD AUDIO



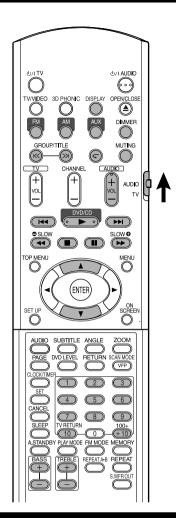
For MP3/WMA



For SVCD/VCD/CD

The clock time indication appears on the display window.

- Before setting the clock (page 34), "0:00" 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



NOTE

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

 Tors NOS CONTROL TO THE PROPERTY OF THE PROPERTY
- 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



Press ■ during playback.

To pause playback



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



Press II during pause.

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

Fast reverse/Fast forward search



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 ►.

NOTE

- 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)



Press \subset during playback.

NOTE

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

Slow Motion Playback



pause.

- Each time you press the button, the playback speed increases ($\times 1/32$, $\times 1/16$, $\times 1/8$, $\times 1/4$,
- 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







Press | ◀ or ▶ b | 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 >> to select the title
- During playback of a JPEG disc, press ►►I or cursor ▼ to play the next file, or press I◄◄ or cursor \(\Lambda \) to play the previous file.

NOTE

- 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.

How to use the number buttons

Ex.:

5: 5

15: (+10) → (5)

20: (+10) → (10)

25: $(+10) \rightarrow (+10) \rightarrow (5)$



Guide icons displayed on the TV screen (On-screen guide)



: Plav



: Pause



: Fast reverse/Fast forward search



: Slow Motion Playback (reverse/ forward directions)



: Containing multi-angle views (page 24)



Containing multi-audio languages (page 24)



: Containing multi-subtitle languages (page 24)

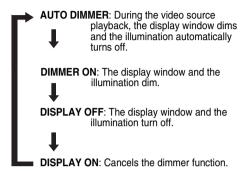


: The disc cannot accept the operation you have attempted.

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 +/-.

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

Adjusting sound quality

Bass: Press BASS +/-. Treble: Press TREBLE +/-.

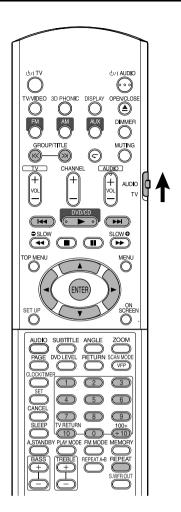
Adjustable range: -5 to +5

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

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

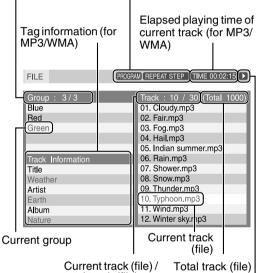
For a JPEG disc, read "track" as "file".

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)



total track (file) number on disc number on current group

Playback status

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

 to go back to the group 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 ► or ENTER.

NOTE

- 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).
- I◄◄ or ➤►I can also be used in Step 4. In this case, Step 5 is not needed.

Repeat playback

MP3 WMA

1 Press REPEAT.

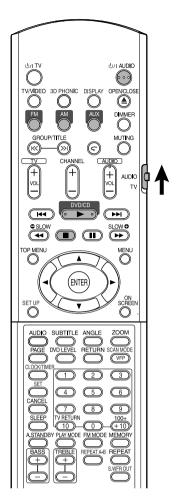
• Each time you press the button, the Repeat mode and its indication change as follows:

Repeat items	On the TV	On the display window
Current track (MP3/WMA only)	REPEAT TRACK	REP TRK ⊊1
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
All tracks during Program/Random play (MP3/WMA only)	REPEAT ALL	REP ALL

2 Press DVD/CD ▶.

NOTE

- 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).



NOTE

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



DVD DVD 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/ AUDIO to turn off the power.

Change the source to 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.

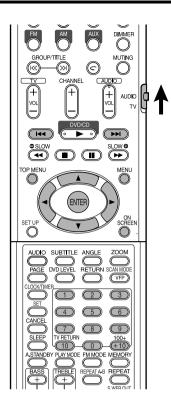


To start playback from the stored position

Press DVD/CD ▶.

NOTE

- 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).



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).

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)



1 Press ON SCREEN twice during playback².

The menu bar will be displayed (page 28).

- 2 Press cursor ◀ /► to select ④ .
- **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.

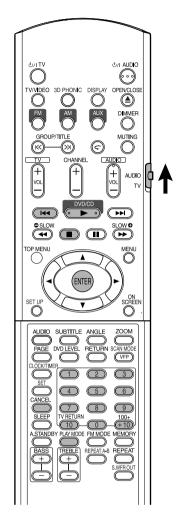
5 Press ENTER.

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.





NOTE

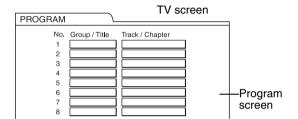
Set the remote control mode selector to **AUDIO** before using the number buttons.



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.

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



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)

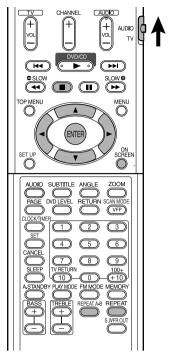
- 1 Press PLAY MODE repeatedly to display "RANDOM" on the display window on the main unit while the disc is stopped.
 - "RANDOM" will also be displayed on the TV screen.

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◄◄ 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)



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 ⊊1
Current title	TITLE	REP TTL
Cancel	OFF	REP OFF

For DVD AUDIO

Repeat items	On the TV	On the display window
Current track	TRACK	REP TRK
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	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 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	STEP or REPEAT STEP	REP STEP
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)



1 Press ON SCREEN twice during playback.

The menu bar (page 28) will be displayed.

- 2 Press cursor <-/>
 ✓/► to select
 color: |.
- **3** Press ENTER.
- 4 Press cursor ▲/▼ to display

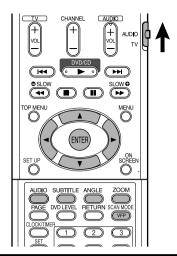
A−B •

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 🖒 A-B | and press **ENTER** twice.

NOTE

- 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.



Selecting the subtitles

DVD SVCD DVD AUDIO

(only for moving image)

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

Ex.:



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

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

- For a language code such as "AA", refer to "Language codes" (page 38).
- 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

DVD DVD AUDIO VCD SVCD

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

Ex.:



- 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 38).
- "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.

Ex.:



- 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



DVD VCD SVCD DVD JPEG





(only for moving image)

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 $\triangle/\nabla/\triangle$.

• To resume normal playback, select "ZOOM OFF" in Step 1.

Adjusting the picture









Press VFP during playback or while paused.

The current setting will be displayed on the TV screen.



- 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.

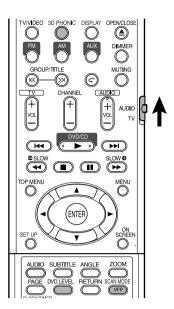
- It is recommended to select "NORMAL" usually, or "CINEMA" in a dark room. When either "NORMAL" or "CINEMA" is selected, go to Step 7.
- When either "USER 1" or "USER 2" is selected, the adjustment can be carried out in detail in the operations after Step 3.
- 3 Press cursor **▲/▼** to select an item to be adjusted.
- 4 Press ENTER.



- 5 Press cursor **△**/**▼** to change the value.
- 6 Press ENTER. To adjust other items, go back to Step 3.
- 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)











The two speakers produce an effect resembling surround-sound.

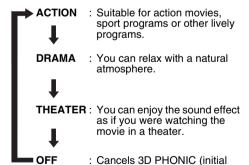
Press 3D PHONIC during playback.

Ex.:

TV screen

3D PHONIC OFF

 Each time you press the button, the 3D PHONIC will be alternated as follows:



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

setting).

NOTE

- 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)

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

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
- 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

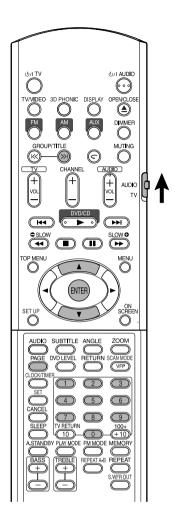
Progressive mode:

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.





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.

1 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.

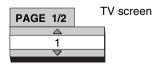
NOTE

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

1 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 $\blacktriangle/\blacktriangledown$.

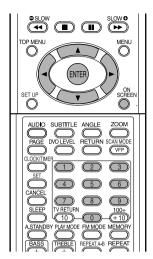
Ex.:



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

Using the menu bar





NOTE

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

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

 Tylength 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.



The above is an example for a DVD VIDEO.

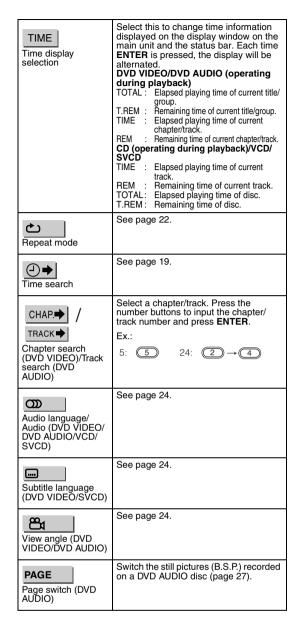
2 Press cursor **◄/►** to select an item to be operated.

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.

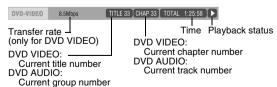
Functions list

For the functions with no special description for the operations, press cursor ▲/▼ to select, and press ENTER to determine.



Information displayed on the status bar

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



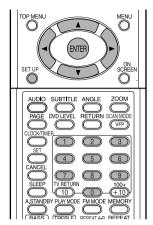
VCD/SVCD/CD (the example below is for a CD)



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.

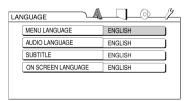
NOTE

- 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.



LANGUAGE

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 38).

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. 16:9/16:9 MULTI: 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/4:3 MULTI 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/4:3 MULTI 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.)
	By selecting "MULTI" mode, the color system of the System changes automatically to match that of the loaded disc.
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

T	
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	
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		
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		
MP3/WMA disc	32/44.1/48 kHz, 16 bits stereo linear PCM		

<u>NOT</u>E

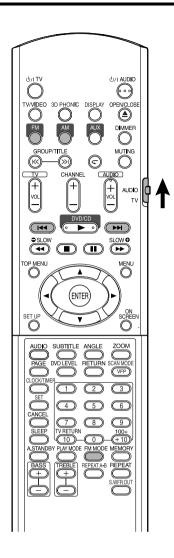
- For a DVD VIDEO: There is a 20 bit or 24 bit output for DVD VIDEO without content protection set.
- For a DVD AUDIO: There is no output for DVD AUDIO with content protection set.

AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
Al	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
ВН	Bahrain
BI	Burundi
BJ	Benin
BM	Bermuda
BN	Brunei Darussalam
ВО	Bolivia
BR	Brazil
BS	Bahamas
BT	Bhutan
BV	Bouvet Island
RW	l Botswana
BW	Botswana Belarus
BY	Belarus
BY BZ	Belarus Belize
BY BZ CA	Belarus Belize Canada
BY BZ	Belarus Belize Canada Cocos (Keeling)
BY BZ CA CC	Belarus Belize Canada Cocos (Keeling) Islands
BY BZ CA	Belarus Belize Canada Cocos (Keeling)
BY BZ CA CC	Belarus Belize Canada Cocos (Keeling) Islands
BY BZ CA CC	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic
BY BZ CA CC	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo
BY BZ CA CC CF CF	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland
BY BZ CA CC CF CG CH CI	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire
BY BZ CA CC CF CG CH CI CK	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands
BY BZ CA CC CF CG CH CI CK CL	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile
BY BZ CA CC CF CG CH CI CK CL CM	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon
BY BZ CA CC CF CG CH CI CK CL CM CN	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China
BY BZ CA CC CF CG CH CI CK CL CM CN CO	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia
BY BZ CA CC CF CG CH CI CK CL CM CN	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China
BY BZ CA CC CF CG CH CI CK CL CM CN CO	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba
BY BZ CA CC CF CG CH CI CK CL CM CN CO CR CU	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba
BY BZ CA CC CF CG CH CI CK CL CM CN CO CR CU CV	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde
BY BZ CA CC CF CG CH CI CK CL CM CO CO CR CO CCR CU CV CX	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island
BY BZ CA CC CF CG CH CI CK CL CM CN CO CR CU CV CX CY	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus
BY BZ CA CC CF CG CH CI CK CL CM CN CO CR CU CV CX CY CZ	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic
BY BZ CA CC CF CG CH CI CK CL CM CO CR CU CV CY CZ DE	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany
BY BZ CA CC CF CG CH CI CK CL CM CO CR CU CV CZ DE DJ	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti
BY BZ CA CC CF CG CH CI CK CL CM CO CR CU CV CZ DE DJ DK	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark
BY BZ CA CC CF CG CH CI CK CL CM CO CR CU CV CY CY CZ DE DJ DK DM	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic 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
BY BZ CA CC CF CG CH CI CK CL CM CN CO CR CU CV CX CY DE DJ DK DM DO	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark
BY BZ CA CC CF CG CH CI CK CL CM CO CR CU CV CY CY CZ DE DJ DK DM	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic 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
BY BZ CA CC CF CG CH CI CK CL CM CN CO CR CU CV CX CY DE DJ DK DM DO	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic 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
BY BZ CA CC CF CG CH CI CK CL CM CO CR CU CY CZ DE DJ DK DM DO DZ EC	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic 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 Dominican Republic Algeria Ecuador
BY BZ CA CC CF CG CH CI CK CL CM CO CR CU CV CZ DE DJ DK DM DO DZ EC EE	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic 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 Dominican Republic Algeria Ecuador Estonia
BY BZ CA CC CF CG CH CI CK CL CM CN CO CR CU CV CZ DE DJ DK DM DO DZ EC EE EG	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic 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 Dominican Republic Algeria Ecuador Estonia Egypt
BY BZ CA CC CF CG CH CI CK CL CM CO CR CU CV CZ DE DJ DK DM DO DZ EC EE	Belarus Belize Canada Cocos (Keeling) Islands Central African Republic 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 Dominican Republic Algeria Ecuador Estonia

ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands
	(Malvinas)
FM	Micronesia
' '*'	(Federated States of)
	Faroe Islands
FO	
FR	France
FX	France, Metropolitan
GA	Gabon
GB	United Kingdom
GD	Grenada
GE	Georgia
GF	French Guiana
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe
GQ	Equatorial Guinea
GR	Greece
GS	South Georgia and
	the South Sandwich
	Islands
GT	Guatemala
GU	Guam
GW	Guinea-Bissau
GY	Guyana
HK	Hong Kong
НМ	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
JP	Japan
	<u> </u>
KE	Kenya
KG	Kyrgyzstan
KH	Cambodia
KI	Kiribati
KM	Comoros
KN	Saint Kitts and Nevis
KP	Korea, Democratic
	People's Republic of
KR	Korea, Republic of
KW	Kuwait
KY	Cayman Islands
KZ	Kazakhstan
LA	Lao People's
	Democratic Republic
LB	Lebanon

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

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



NOTE

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



Selecting a station

- 1 Press FM or AM.
- 2 Press | ◄ ◄ / ▶ ► | to select the station (frequency).

Automatic tuning:

Hold down I◄◄/▶►I 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◄◄/▶►I.

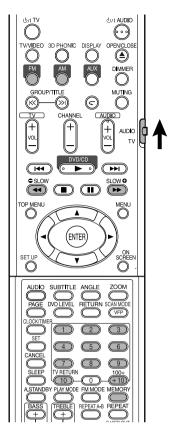
Manual tuning:

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.



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.

- 1 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.

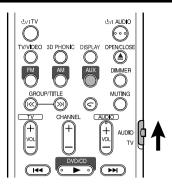
Tuning in to a preset station

- 1 Press FM or 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 ◀◀/▶▶.

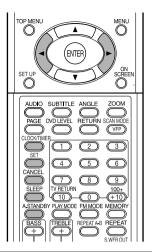
Listening to the sound of other audio device



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

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.

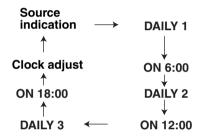
When the on-time comes:

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.

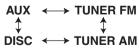
1 Press CLOCK/TIMER repeatedly to show "DAILY 1."

 Each time you press the button, the clock setting changes as follows:



- 2 Press cursor </br>

 → 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:



- 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 </br>
 ✓ 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 or AUX, Auto Standby does not work.

Setting the Various Timer (continued)

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 ▲ (open/close) with ■ (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.
 - → 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.
 - → 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".
- \rightarrow 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.
 - → Press **S.WFR OUT** to turn on (page 10).

About radio

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

Troubleshooting (continued)

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 36
- "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.

Language codes

			T -
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
ΑZ	Azerbaijani	MY	Burmese
BA	Bashkir	NA	Nauru
BE	Byelorussian	NE	Nepali
BG	Bulgarian	NL	Dutch
ВН	Bihari	NO	Norwegian
BI	Bislama	OC	Occitan
BN	Bengali, Bangla	OM	(Afan) Oromo
ВО	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		SH	
FO	Fiji Faroese	SI	Serbo-Croatian
-			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
KK	Kazakh	TO	Tonga
KL	Greenlandic	TR	Turkish
KM	Cambodian	TS	Tsonga
KN	Kannada	TT	Tatar
KO	Korean (KOR)	TW	Twi
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
LV	Latvian, Lettish	YO	Yoruba
MG	Malagasy	ZU	Zulu
MI	Maori		

General

Power source: AC 110-240 V \sim , 50/60 Hz

Power consumption: 25 W (in operation)

1.3 W (on standby)

Weight: 2.7 kg

External dimensions

(W x H x D): 150 mm x 152 mm x 246 mm

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: PAL/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:

For PAL 0.3 V (p-p)/75 Ω For NTSC 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: 18 W per channel, min.

RMS, at 4 Ω at 1 kHz with no more than 10% total harmonic distortion

 $\begin{array}{lll} \mbox{Fitting impedance:} & 4~\Omega~\mbox{to 16}~\Omega\\ \mbox{Headphones x1:} & 11~\mbox{mW/32}~\Omega\\ \mbox{Fitting impedance:} & 16~\Omega~\mbox{to 1}~\mbox{k}\Omega\\ \mbox{Subwoofer x1:} & 500~\mbox{mVrms/10}~\mbox{k}\Omega \end{array}$

Digital sound output:

Optical x1: —21 dBm to –15 dBm

Audio input

Sound input: AUX x1

400 mV/50 k Ω

Tuner

FM tuner:

Receiving frequency: 87.5 MHz to 108.0 MHz Antenna: 75 Ω - Unbalanced type

AM tuner:

Receiving frequency: 530 kHz to 1 710 kHz

(at 10 kHz interval spacing) 531 kHz to 1 710 kHz

(at 9 kHz interval spacing)
Antenna: External antenna jack (loop

antenna)

Speaker

Type: Full range

1-way bass-reflex type Magnetically shielded type

Speaker: 8 cm cone x1

Frequency response: 60 to 20 000 Hz

Power handling capacity: 20 W Impedance: 4 Ω Sound pressure level: 81 dB/W·m

Dimension (W x H x D): 120 mm x 150 mm x 188 mm

Weight (1 unit): 1.5 kg

Designs and Specifications are subject to change without notice.

JVC

Para el residente de Mexico IMPORTADOR: JVC DE MEXICO, S.A. DE C.V. AV. INSURGENTES SUR No.670 8º PISO COL. DEL VALLE, MEXICO, D.F. C.P.03100 Tel. 55 36 82 52 Fax. 56 69 09 43



EN, SP, PR

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JVC

COMPACT COMPONENT SYSTEM

نظام اجهزة صوتية مركبة

سیستم دستگاه کامپکت

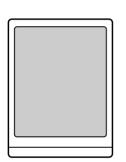
FS-Y1

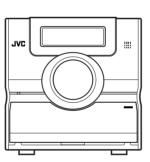
Consists of CA-FSY1 and SP-FSY1

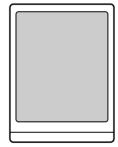
يتألف هذا النظام من الاجهزة SP-FSY1، CA-FSY1

متشكل از CA-FSY1 و SP-FSY1 مي باشد

















/ INSTRUCTIONS كتيّب تعليمات التشقيل

دستورالعمل ها

Warnings, Cautions and Others تحذیرات ، تنبیهات و اشیاء اخری هشدارها، احتیاطها و موارد دیگر

CAUTION—STANDBY/ON U/I button!

Disconnect the mains plug to shut the power off completely (all lamps and indications go off). The STANDBY/ON \circlearrowleft /| button in any position does not disconnect the mains line.

- When the unit is on standby, the STANDBY/ON lamp lights in red.
- When the unit is turned on, the STANDBY/ON lamp lights in green.

The power can be remote controlled.

CAUTION

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

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

CAUTION

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

تحذير — زر الاستعداد للتشغيل/التشغيل الـSTANDBY/ON &!! انزع قابس سلك الطاقة الكهربائية من اجل فصل الطاقة الكهربائية عن الجهاز كليا.

(تنطفىء كل اللمبات والبيانات). لا يفصل زر الاستعداد للتشغيل/التشغيل

الكهربائية عن الجهاز. STANDBY/ON باي وضع من الاوضاع خط الطاقة الكهربائية عن الجهاز.

- عندما يكون الجهاز في حالة استعداد للتشغيل، تضيء لمبة الاستعداد للتشغيل STANDBY/ON باللون الاحمر.
 - عندما يكون الجهاز في حالة تشغيل، تضيء لمبة الاستعداد للتشغيل STANDBY/ON باللون اخضر.

يمكن التحكم عن بعد بالطاقة الكهربائية.

تحذير

جنُّب خطر الحريق، الصدمات الكهربائية، الخ.:

١. لا تفك البراغي أو الاغطية أو الخزانة.

٢. لا تعرّض هذا الّجهاز للمطر او للرطوبة.

تحذير

- لا تغلق فتحات التهوية او الثقوب.
- (في حالة اغلاق فتحات التهوية أو الثقوب بواسطة ورق الصحف او القماش، الخ، فانه يمكن ان لا تخرج الحرارة للخارج.)
- لا تضع اية مصادر حرارية مكشوفة، مثل الشموع المضيئة,
 على الجهاز.
- عند اتلاف البطاريات، يجب اخذ مشاكل البيئية بعين الاعتب_{ار}
 ويجب التقيد بالانظمة المحلية او القوانين التي تحكم اتلاف
 هذه البطاريات بصورة دقيقة.
 - لا تعرّض هذا الجهاز للمطر، او الرطوبة، او تنقيط الماء، او رشق الماء ولا تضع اي اوعية مملوءة بالماء او السوائل مثل مزهريات الورد على هذا الجهاز.

احتىاط — دكمه ا/STANDBY/ON ا

دوشاخه برق را برای خاموش کردن کامل دستگاه خارج کنید (تمامی چراغها و نشانگرها خاموش می شوند). دکمه STANDBY/ON **ن**(ا وضعیتی برق اصلی دستگاه را قطع نمی کند.

هنگاهی که دستگاه در حالت آماده است، چراغ STANDBY/ON به رنگ قرمز است.
 هنگاهی که دستگاه در حالت روشن است، چراغ STANDBY/ON به رنگ سبز است.
 برق دستگاه را نمی توان از راه دور کنترل کرد.

احتياط

برای کاهش خطر شوک الکتریکی، آتش سوزی و غیره: ۱. پیچها، جلدها یا جعبه را باز نکنید.

۲. این دستگاه را در معرض باران با رطوبت قرار ندهید.

احتياط

- •محفظه ها و سوراخهای تهویه را مسدود نکنید.
- (اگر محفظه ها یا سوراخهای تهویه با ورق روزنامه یا پارچه و غیره مسدود شوند، حرارت ممکن است نتواند خارج گردد.)
- •هیچ گونه شعله بدون حفاظی مانند شمعهای روشن را روی دستگاه قرار ندهید.
- •وقتی که باتریها را دور می اندازید، مسائل زیست محیطی باید در نظر گرفته شوند و از قوانین و مقررات محلی در مورد این باتریها باید کاملا پیروی کرد. •این دستگاه را در معرض باران، مایعات ریخته شده و مایعاتی که تراوش می شوند قرار ندهید و اشیائی که با مایعات پر شده اند مانند گلدان را روی دستگاه نگذار بد.

Caution: Proper Ventilation

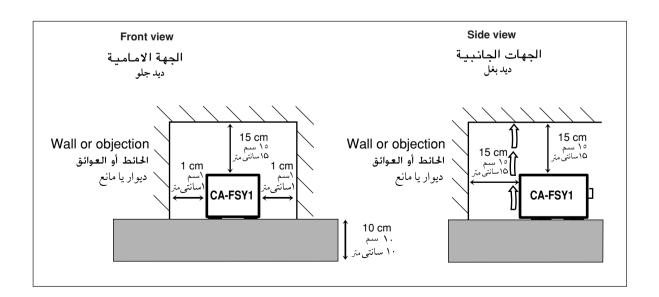
To avoid risk of electric shock and fire, and to prevent damage, locate the apparatus as follows:

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

محدور، المهويه الصحيحة لتجنّب حصول صدمات كهربائية واخطار الحريق ومنع حصول تلف وضرر للجهاز، ركّب الجهاز كما يلي: ١ الجهة الامامية: يجب أن لا يكون هنالك عوائق ويجب أن تكون المنطقة مفتوحة أمام الجهاز. ٢ الجهات الجانبية / العلوية / الخلفية: يجب عدم وضع عوائق في المناطق المبينة بالابعاد في الاسفل. ٣ القاعدة: يجب وضع الجهاز على سطح منبسط. أترك مسافة كافية من أجل التهوية بواسطة وضع الجهاز على حامل بارتفاع ١٠ سم أو أكثر.

۱ . جلو : بدون مانه و فضاي باز .

. ر. کرد. ۲.صرفین/ بالا/ پشت:هیچ مانعی نباید در مناطقی با فواصل نهایش داده شده قرار داده شود. ۳.ته:دستگاه را روی سطح تراز قرار دهید. مسیر هوای مناسبی را برای تهویه با گذردن دستگاه روی یک پایه ۱۰ سانتی متری یا بیشتر تعبیه کنید.



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.

مهم للمنتجات الليزرية

۱. صنف ۱ منتج لیزری

٢. تحذير: لا تفتح الغطاء العلوي. لا يوجد اجزاء داخل الجهاز يستطيع المستخدم صيانتها؛ اترك جميع اعمال الصيانة مهما كانت للاشخاص

المؤهلين والمختصين بالصبانة.

٣. تحذير: هنالك أشعة ليزرية مرئية وغير مرئية عند الفتح والعبث بالاجزاء الداخلية أو تعطيل أقفال الأمان. تحنّب التعرض المباشر للأشعة.

٤. انتاج الملصقات: ملصق التنبيه، موجود داخل الجهاز.

برای محصولات لیزری مهم است ۱. محصول لیزر درجه ۱

۲.احتیاط: یوشش بالایی را باز نکنید، قطعه ایی که کاربر بتواند آن را تعمیر کنید در داخل وجود ندارد؛ کلیه تعميرات را به متخصصين تعمير مجرب محول كنيد.

٣.احتياط: هنگامي كه در حالت باز است و قفل از كار مي افتد و يا خنثي مي شود، اشعه نامرئي ليزر ساطع مي شود. از تماس مستقیم با اشعه اجتناب کنید.

۴. تولید مجدد بر چسب: بر چسب احتیاط، بیرون دستگاه قرار گرفته است.

CAUTION: Visible and invisible laser radiation when open and BEAM.

ADVARSEL: Synlig og usynlig laserstråling når maskinen er interlock failed or defeated. åben eller interlocken fejler. den öppnas och spärren är AVOID DIRECT EXPOSURE TO Undgå direkte eksponering til urkopplad. Betrakta (e) stråling.

VARNING: Synlig och osynlig laserstrålning när (d) strålen.

VARO: Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen (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.
- The following marks tell you for which type of the discs the operation can be made.











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".

Special cautions

Notes on handling

Important cautions

Installation of the system

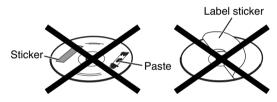
- Select a place which is level, dry and neither too hot nor too cold; between 5°C and 35°C.
- Leave sufficient distance between the system and the
- Do not use the system in a place subject to vibration.

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.



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

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

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
- 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)
- Batteries (2)
- FM antenna (1)
- AM loop antenna (1)
- Power cord (1)
- Composite video cord (1)
- Speaker cords (2)

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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-EXTRA CD-G CD TEXT

Diece vou can play

Discs you can play:			
Disc Type	Mark (Logo)	Video Format	
DVD VIDEO	VIDEO TM VIDEO	PAL/ NTSC	
DVD AUDIO	AUDIO/VIDEO AUDIO		
VCD	COMPACT Video CD	PAL/ NTSC	
SVCD	COMPACT VIDEO VIDEO SUPER VIDEO	PAL/ NTSC	
CD	COMPACT DIGITAL AUDIO	l	
CD-R	COMPACT DIGITAL AUDIO Recordable	_	
CD-RW	COMPACT 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 "2".

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.

About discs (continued)

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.)

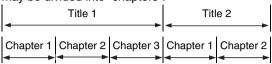
For JPEG files

- 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".



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).



VCD/SVCD/CD

VCD, SVCD and CD consist of "tracks".

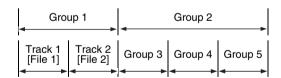
In general, each track has its own track number. (On some discs, each track may also be further divided by indexes.)



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 layers.

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

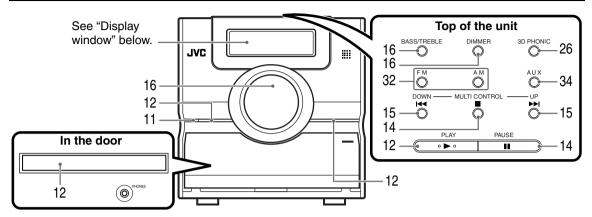


This product can recognize up to 1 000 tracks [files] in a disc. Also, the product can recognize up to 150 tracks [files] per group and up to 99 groups in a disc. Since the unit ignores the tracks [files] whose numbers are exceeding 150 and the groups whose numbers are exceeding 99, they cannot be played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

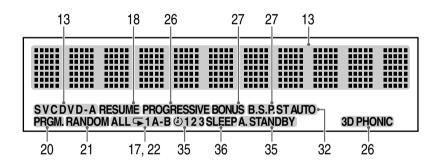
The numbers represent the page numbers.

Front panel

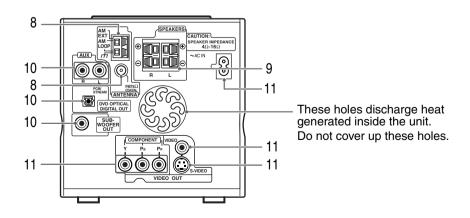


* Connect headphones (not supplied) with a stereo mini plug. If the headphones are connected, the speakers and subwoofer will not produce any sound.

Display window

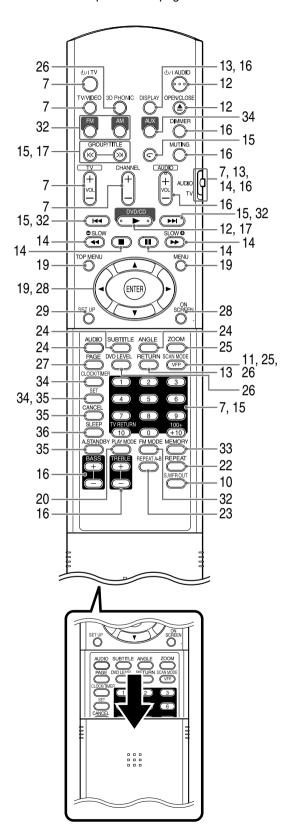


Rear panel

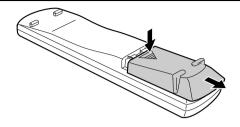


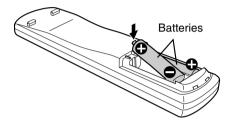
Using the remote control

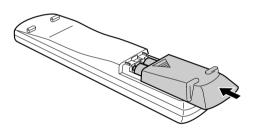
The numbers represent the page numbers.



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.

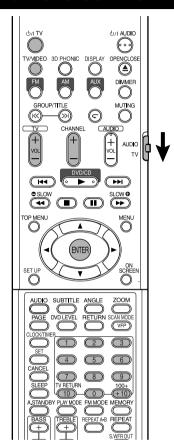
Remote control operation

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/ITV.

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 ७/| TV.

For TV operation

Operate the remote control by pointing it towards the TV.

tile i v.		
Ů/ITV	Turn ON/OFF the power.	
CHANNEL +	Change channels.	
TV + VOL	Adjust volume.	
1 ~ 9 / 100+ 0 / + 10	AUDIO TV 1	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.

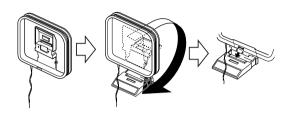
NOTE

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

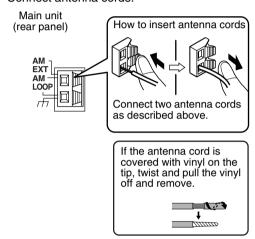
Connecting antennas

Connecting AM loop antenna (supplied)

1 Set up the AM loop antenna.

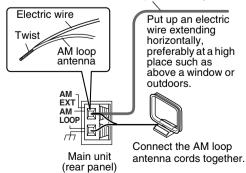


2 Connect antenna cords.

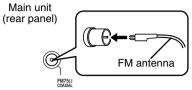


- 3 Turn the AM loop antenna to the direction of the best radio reception.
 - Locate the AM loop antenna as far away from the main unit as possible.
 - Do not locate the AM loop antenna on a metallic table or close to a TV, personal computer, etc.
 Otherwise it may result in bad radio reception.
- When good radio reception cannot be obtained with the supplied AM loop antenna

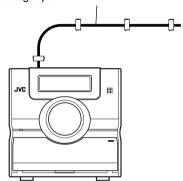
Electric wire: 3 - 5 m (commercially available)



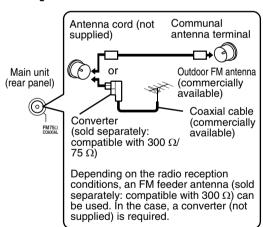
Connecting FM antenna (supplied)



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



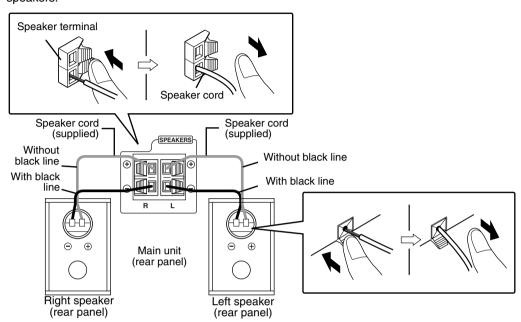
When good radio reception cannot be obtained with the supplied antenna or when using a communal antenna



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

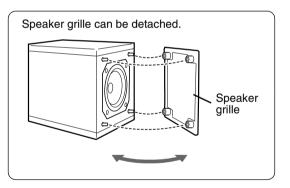
Connecting speakers

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.
 - 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 between the TV and the speakers.



NOTE

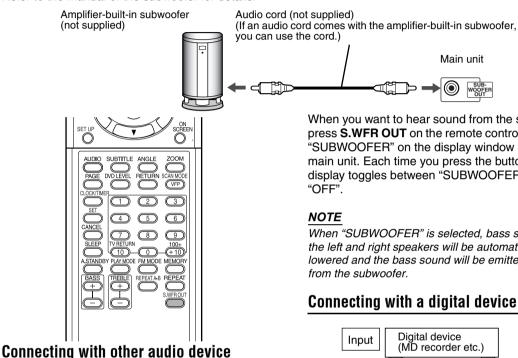
- Impedance of speaker that can be connected to the main unit is within a range of 4 Ω to 16 Ω .
- In order to have a sufficient cooling effect, leave a space of more than 1 cm between the main unit and the speakers or other objects.

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.



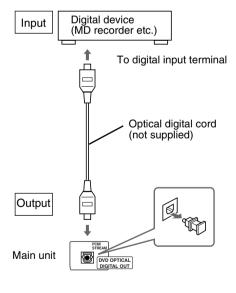
When you want to hear sound from the subwoofer, press S.WFR OUT on the remote control to display "SUBWOOFER" on the display window on the main unit. Each time you press the button, the display toggles between "SUBWOOFER" and "OFF".

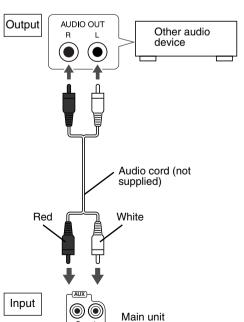
Main unit

NOTE

When "SUBWOOFER" is selected, bass sound from the left and right speakers will be automatically lowered and the bass sound will be emitted mainly from the subwoofer.

Connecting with a digital device

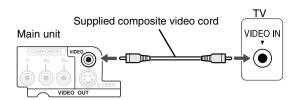




CAUTION

- · For details of signals to be output, refer to page
- · 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.

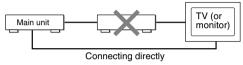
Connecting with TV



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.

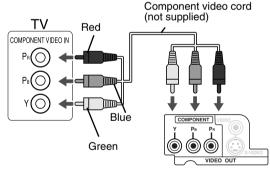


Also, when connecting the main unit to a TV with a VCR built in, there may be picture distortion while playing.

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

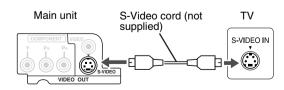
Connecting by using the component video cord

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



Main unit

Connecting by using the S-Video cord



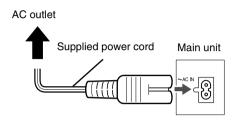
CAUTION

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.

Selecting an AM interval spacing

You can change the AM interval spacing.

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

- Before doing the following procedure, select AM as source, then turn off the unit.
- . Use the buttons on the main unit.

To set the AM tuner to the 10 kHz spacing:

While holding ►►I, press STANDBY/ON ७/I.

To set the AM tuner to the 9 kHz spacing:

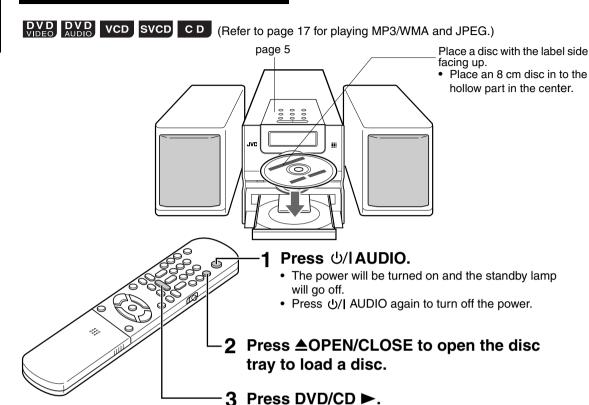
While holding l◄◄, press STANDBY/ON ৩/I.

Changing the color system

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

- 1 Press and hold **VFP** for 4 seconds while the system is turned off (on standby).
- 2 Press cursor **◄/►** to select the video output.
- 3 Press ENTER to set the video output.

Playback



The power will be turned on when any of PLAY
 ►, FM, AM, AUX, or ≜ on the main unit and
 DVD/CD ►, 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).

NOTE

The disc tray will close and playback will start.

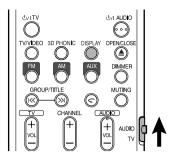
- A menu screen may be displayed on the TV after starting playback of a DVD/VCD/SVCD. In this case, select a desired item to playback by using the following buttons on the remote control.
 - Select a desired item using cursor ▲/▼/◄/► and press ENTER.
 - Select a desired item using the number buttons.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



Screens displayed on the TV when the power is turned ON.

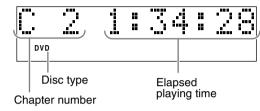
The following messages appear depending on the status of the system. (When FM, AM or AUX is selected as a source, the messages do not appear.)

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



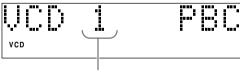
Ex.: When a DVD AUDIO is played



Track number

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

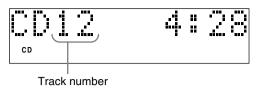
Ex.: When an SVCD or VCD is played



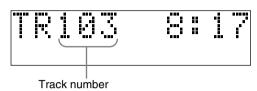
Track number

- 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



Ex.: When an MP3/WMA file is played

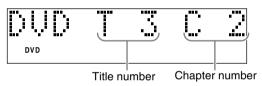


To switch the display

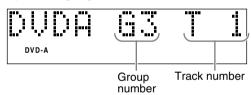
Press DISPLAY.

Each time you press the button, the display indication changes temporarily as follows:

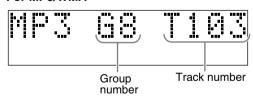
For DVD VIDEO



For DVD AUDIO



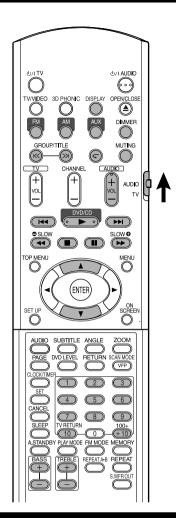
For MP3/WMA



For SVCD/VCD/CD

The clock time indication appears on the display window.

- Before setting the clock (page 34), "0:00" 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



NOTE

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

 Tors NOS CONTROL TO THE PROPERTY OF THE PROPERTY
- 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



Press ■ during playback.

To pause playback



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



Press II during pause.

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

Fast reverse/Fast forward search



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)



Press \subset during playback.

NOTE

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

Slow Motion Playback



Press SLOW or SLOW during pause.

- Each time you press the button, the playback speed increases ($\times 1/32$, $\times 1/16$, $\times 1/8$, $\times 1/4$,
- 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







Press | ◀ or ▶ b | 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 >> to select the title
- During playback of a JPEG disc, press ►►I or cursor ▼ to play the next file, or press I◄◄ or cursor \(\Lambda \) to play the previous file.

NOTE

- 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.

How to use the number buttons

Ex.:

5: 5

15: (+10) → (5)

20: (+10) → (10)

25: $(+10) \rightarrow (+10) \rightarrow (5)$



Guide icons displayed on the TV screen (On-screen guide)



: Plav



: Pause



: Fast reverse/Fast forward search



: Slow Motion Playback (reverse/ forward directions)



: Containing multi-angle views (page 24)



Containing multi-audio languages (page 24)



: Containing multi-subtitle languages (page 24)

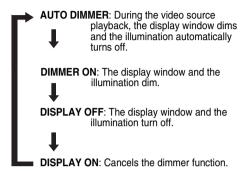


: The disc cannot accept the operation you have attempted.

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 +/-.

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

Adjusting sound quality

Bass: Press BASS +/-. Treble: Press TREBLE +/-.

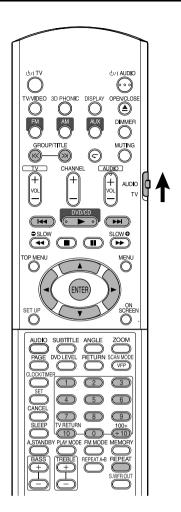
Adjustable range: -5 to +5

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

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

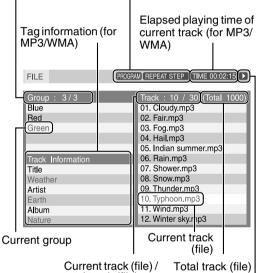
For a JPEG disc, read "track" as "file".

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)



total track (file) number on disc number on current group

Playback status

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

 to go back to the group 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 ► or ENTER.

NOTE

- 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).
- I◄◄ or ➤►I can also be used in Step 4. In this case, Step 5 is not needed.

Repeat playback

MP3 WMA

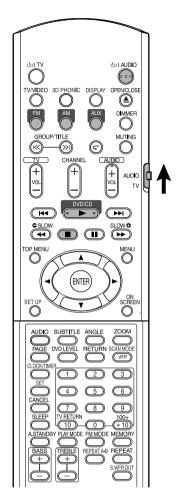
1 Press REPEAT.

• 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 ⊊1
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
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).



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



DVD DVD 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/ AUDIO to turn off the power.

Change the source to FM, AM or AUX.*

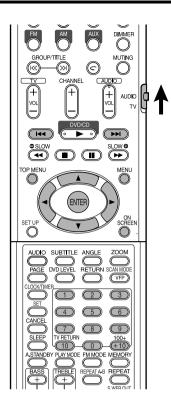
* Even if the power is turned off by pressing U/I AUDIO after this, the position where playback has been stopped will be stored.



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).



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).

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)



1 Press ON SCREEN twice during playback².

The menu bar will be displayed (page 28).

- 2 Press cursor ◀ /► to select ④ .
- **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

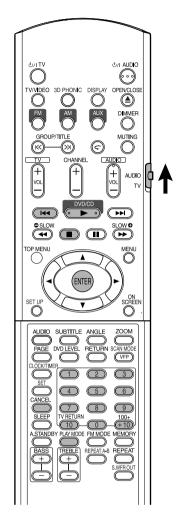
to delete the numbers and re-input.

5 Press ENTER.

To delete the menu bar, press ON SCREEN.

- 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.





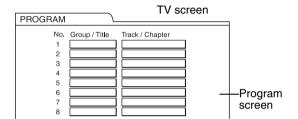
Set the remote control mode selector to **AUDIO** before using the number buttons.



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.

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



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)

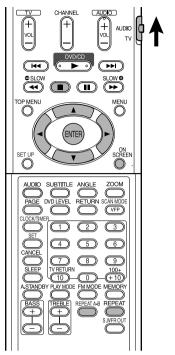
- 1 Press PLAY MODE repeatedly to display "RANDOM" on the display window on the main unit while the disc is stopped.
 - "RANDOM" will also be displayed on the TV screen.

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◄◄ 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)



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 ⊊1
Current title	TITLE	REP TTL
Cancel	OFF	REP OFF

For DVD AUDIO

Repeat items	On the TV	On the display window
Current track	TRACK	REP TRK ⊊1
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
All tracks	ALL	REP ALL
Cancel	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 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	STEP or REPEAT STEP	REP STEP
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)



1 Press ON SCREEN twice during playback.

The menu bar (page 28) will be displayed.

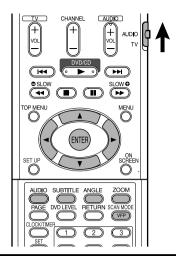
- 2 Press cursor <-/>
 ✓/► to select
 color: |.
- **3** Press ENTER.
- 4 Press cursor▲/▼ to display

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 <u>A-B</u> 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 🖒 A-B | 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.



Selecting the subtitles

DVD SVCD DVD AUDIO

(only for moving image)

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

Ex.:



- Each time you press the button, the subtitle will be alternated between ON and OFF.
- 2 Press cursor ▲/▼ to select a subtitle language.
 - For a language code such as "AA", refer to "Language codes" (page 38).
 - 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

DVD DVD VCD SVCD

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

Ex.:



- 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 38).
- "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.

Ex.:



- 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



DVD VCD SVCD DVD JPEG





(only for moving image)

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 $\triangle/\nabla/\triangle$.

• To resume normal playback, select "ZOOM OFF" in Step 1.

Adjusting the picture







Press VFP during playback or while paused.

The current setting will be displayed on the TV screen.



- 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.

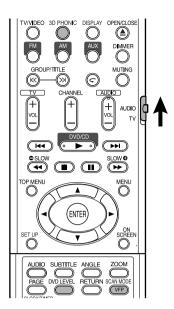
2 Press cursor <-/> √> to select VFP.

- 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.



- 5 Press cursor **△**/**▼** to change the value.
- 6 Press ENTER. To adjust other items, go back to Step 3.
- 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)









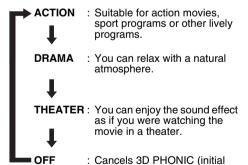
The two speakers produce an effect resembling surround-sound.

Press 3D PHONIC during playback.

Ex.: TV screen

> 3D PHONIC OFF

 Each time you press the button, the 3D PHONIC will be alternated as follows:



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

setting).

NOTE

- 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)

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

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
- 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

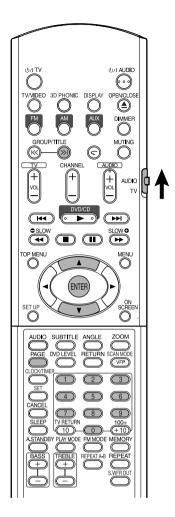
Progressive mode:

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.





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.

- 1 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.

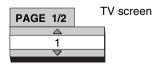
NOTE

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

1 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 $\blacktriangle/\blacktriangledown$.

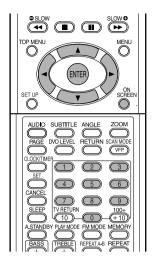
Ex.:



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

Using the menu bar





NOTE

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

 TV
- 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.



The above is an example for a DVD VIDEO.

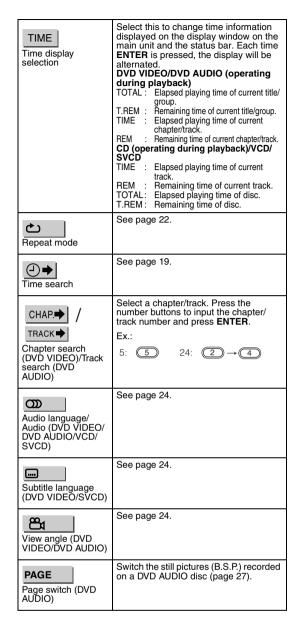
2 Press cursor **◄/►** to select an item to be operated.

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.

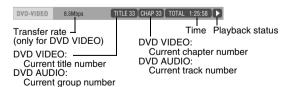
Functions list

For the functions with no special description for the operations, press cursor ▲/▼ to select, and press ENTER to determine.



Information displayed on the status bar

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

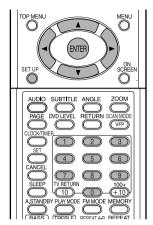


VCD/SVCD/CD (the example below is for a CD)



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

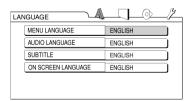
- Set the remote control mode selector to
 AUDIO before using the number buttons.

 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.



LANGUAGE

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 38).

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. 16:9/16:9 MULTI: 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/4:3 MULTI 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/4:3 MULTI 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.)
	By selecting "MULTI" mode, the color system of the System changes automatically to match that of the loaded disc.
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:
CODEEN	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.



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 P	CM
48/96/192 kHz, 16/20/24 bits linear PCM DVD AUDIO	TO KIIZ, TO DIES SIETEO IIITEALT ON		
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	AL 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 k	oits linear PCM
MP3/WMA disc	32/44.1	/48 kHz, 16 bits stereo line	ar PCM

<u>NOT</u>E

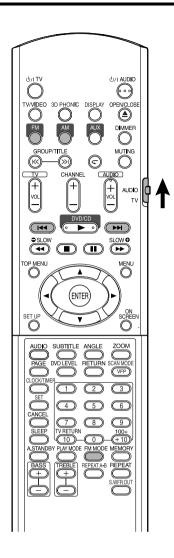
- For a DVD VIDEO: There is a 20 bit or 24 bit output for DVD VIDEO without content protection set.
- For a DVD AUDIO: There is no output for DVD AUDIO with content protection set.

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

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

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

SD	Sudan		
SE	Sweden		
SG			
SH	Singapore Saint Helena		
SI			
	Slovenia		
SJ	Svalbard and Jan		
	Mayen		
SK	Slovakia		
SL	Sierra Leone		
SM	San Marino		
SN	Senegal		
SO	Somalia		
SR	Suriname		
ST	Sao Tome and Principe		
SV	El Salvador		
SY	Syrian Arab Republic		
_			
SZ	Swaziland		
TC	Turks and Caicos		
	Islands		
TD	Chad		
TF	French Southern		
	Territories		
TG	Togo		
TH	Thailand		
TJ	Tajikistan		
TK	Tokelau		
TM	Turkmenistan		
TN	Tunisia		
TO	Tonga		
TP	East Timor		
TR	Turkey		
TT	Trinidad and Tobago		
TV	Tuvalu		
TW	Taiwan		
TZ	Tanzania, United		
	Republic of		
UA	Ukraine		
UG	Uganda		
UM	United States Minor		
	Outlying Islands		
US	United States		
UY	Uruguay		
UZ	Uzbekistan		
VA	Vatican City State		
"	(Holy See)		
VC	Saint Vincent and the		
l vc			
	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		



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



Selecting a station

- 1 Press FM or AM.
- 2 Press | ◄ ◄ / ▶ ► | to select the station (frequency).

Automatic tuning:

Hold down I◄◄/▶►I 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◄◄/▶►I.

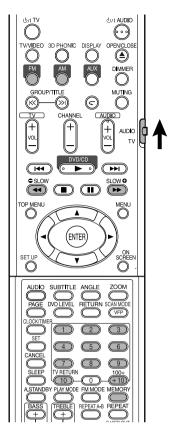
Manual tuning:

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.



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.

- 1 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.

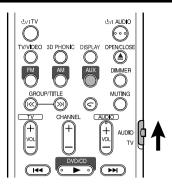
Tuning in to a preset station

- 1 Press FM or 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 ◀◀/▶▶.

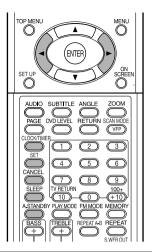
Listening to the sound of other audio device



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

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.

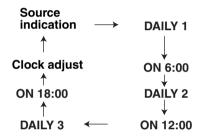
When the on-time comes:

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.

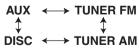
1 Press CLOCK/TIMER repeatedly to show "DAILY 1."

 Each time you press the button, the clock setting changes as follows:



- 2 Press cursor </br>

 → 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:



- 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 or AUX, Auto Standby does not work.

Setting the Various Timer (continued)

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 ▲ (open/close) with ■ (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.

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

About images

■ No picture appears.

- The video cord is not connected correctly.
 - → 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.
 - → 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".
- \rightarrow 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.
 - → Press **S.WFR OUT** to turn on (page 10).

About radio

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

Troubleshooting (continued)

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 36
- "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.

Language codes

			F -
Code	Language	Code	Language
AA	Afar	MK	Macedonian
AB	Abkhazian	ML	Malayalam
AF	Afrikaans	MN	Mongolian
AM	Ameharic	МО	Moldavian
AR	Arabic	MR	Marathi
AS	Assamese	MS	Malay (MAY)
AY	Aymara	MT	Maltese
ΑZ	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
ВО	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	•
IS		TH	Tajik Thai
IW	Icelandic Hebrew	TI	
		TK	Tigrinya
JI	Yiddish Javanese	TL	Turkmen
JW			Tagalog
KA	Georgian	TN	Setswana
KK	Kazakh	TO	Tonga
KL	Greenlandic	TR	Turkish
KM	Cambodian	TS	Tsonga
KN	Kannada	TT	Tatar
KO	Korean (KOR)	TW	Twi
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
LV	Latvian, Lettish	YO	Yoruba
MG	Malagasy	ZU	Zulu
MI	Maori		

General

Power source: AC 110-240 V \sim , 50/60 Hz

Power consumption: 25 W (in operation)

1.3 W (on standby)

Weight: 2.7 kg

External dimensions

(W x H x D): 150 mm x 152 mm x 246 mm

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: PAL/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:

For PAL 0.3 V (p-p)/75 Ω For NTSC 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: 18 W per channel, min.

RMS, at 4 Ω at 1 kHz with no more than 10% total harmonic distortion

 $\begin{array}{lll} \mbox{Fitting impedance:} & 4~\Omega~\mbox{to 16}~\Omega\\ \mbox{Headphones x1:} & 11~\mbox{mW/32}~\Omega\\ \mbox{Fitting impedance:} & 16~\Omega~\mbox{to 1}~\mbox{k}\Omega\\ \mbox{Subwoofer x1:} & 500~\mbox{mVrms/10}~\mbox{k}\Omega \end{array}$

Digital sound output:

Optical x1: —21 dBm to –15 dBm

Audio input

Sound input: AUX x1

400 mV/50 k Ω

Tuner

FM tuner:

Receiving frequency: 87.5 MHz to 108.0 MHz Antenna: 75 Ω - Unbalanced type

AM tuner:

Receiving frequency: 530 kHz to 1 600 kHz

(at 10 kHz interval spacing) 531 kHz to 1 602 kHz

(at 9 kHz interval spacing) External antenna jack (loop

antenna)

Speaker

Antenna:

Type: Full range

1-way bass-reflex type Magnetically shielded type

Speaker: 8 cm cone x1 Frequency response: 60 to 20 000 Hz

Power handling capacity: 20 W

 $\begin{array}{ll} \mbox{Impedance:} & \mbox{4} \ \Omega \\ \mbox{Sound pressure level:} & \mbox{81 dB/W} \cdot \mbox{m} \end{array}$

Dimension (W x H x D): 120 mm x 150 mm x 188 mm

Weight (1 unit): 1.5 kg

Designs and Specifications are subject to change without notice.

JVC