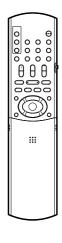
JVC

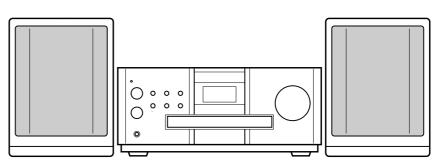


## **COMPACT COMPONENT SYSTEM**

## EX-A1

Consists of CA-EXA1 and SP-EXA1





WOOD CONE









# **INSTRUCTIONS**

#### For Customer Use:

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

Model No.

Serial No.

## Warnings, cautions and others

#### 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 - O/I button!

Disconnect the mains plug to shut the power off completely (the STANDBY lamp goes off).

The O/I button in any position does not disconnect the mains line.

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

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.

#### 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.
- REPRODUCTION OF LABEL: CAUTION LABEL, PLACED INSIDE THE UNIT.

CAUTION : Visible and invisible | ADVARSEL : Synlig og usynlig | VARNING : Synlig och | VARO : Avatlassas ja suojalukhu | laser stallation when open and lasersträlling har maskinen eri ogsvillig lasersträllingn pår hillerfork kallad og deletatet bler eller interlocken lejler. I den öppnas och spärren är nävyvälle ja raksynattionall AVOUD DIRECT EXPOSURE TO Undgå direkte eksponering fill ukropplad. Betrakta ej laserställigike Valla sates (e) Istallan (e) Is



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



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



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

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

#### INFORMATION

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

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

Reorient or relocate the receiving antenna.

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

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

### For Canada/pour le Canada

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

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

### For Canada/pour le Canada

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

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

### Note to CATV system installer:

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

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## **Notes on handling**

### Important cautions

#### Installation of the system

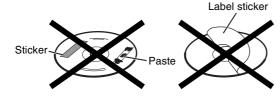
- Select a place which is level, dry and neither too hot nor too cold; between 5°C and 35°C (between 41°F and 95°F)
- Leave sufficient distance between the system and the TV
- · Do not use the system in a place subject to vibration.

#### 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, Super Video CDs (SVCDs), VCDs and CDs. Recording of copyrighted material may infringe copyright laws.

### Note about copy guard system

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

### Safety precautions

### Avoid moisture, water and dust

Do not place the system in moist or dusty places.

#### Avoid high temperatures

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

### When you are away

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

#### Do not block the vents

Blocking the vents may damage the system.

#### Care of the cabinet

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

### If water gets inside the system

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

#### ■ When condensation or water drops adhere to the lens

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

- · Immediately after roomheating starts
- When the system is installed in a steamy or damp space
- When the system is suddenly moved from a cold place to a warm space

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

## **Supplied accessories**

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

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

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

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<sup>• &</sup>quot;DTS" and "DTS 2.0+DIGITAL OUT" are registered trademarks of Digital Theater Systems, Inc.

<sup>•</sup> 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

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/JPEG discs recorded in ISO 9660 (for details, refer to "About MP3/JPEG discs")

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:

Disc Type	Mark (Logo)	Video Format	Region Code Number*
DVD VIDEO	VIDEO TIM VIDEO	NTSC	1/ALL
DVD AUDIO	AUDIO/VIDEO AUDIO	l	ı
VCD	COMPACT VIDEO CD	NTSC	-
SVCD	COMPACT VIDEO VIDEO SUPER VIDEO CD	NTSC	ı
CD	COMPACT DIGITAL AUDIO	l	1
CD-R	COMPACT DIGITAL AUDIO RECOrdable	_	_
CD-RW	COMPACT DIGITAL AUDIO REWritable	_	_

#### 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 above.

#### 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.

### Discs that cannot be played back

The following discs cannot be played back: DVD-ROM, DVD-RAM, DVD-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 (4<sup>3</sup>/<sub>4</sub> inches or 3<sup>1</sup>/<sub>8</sub> inches) in diameter) cannot be played back.

### About MP3/JPEG discs

Playable MP3/JPEG discs and files

- Discs recorded in the ISO 9660 format are playable (except discs recorded in the "packet write" format (UDF format))
- Discs recorded in the multi-session format are also playable.
- Files with an extension of ".mp3," ".jpg" or ".jpeg" (extensions with uppercase and lowercase letters mixed are also acceptable) are playable.

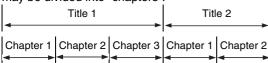
#### Notes on MP3/JPEG discs and files

- A disc may not be played, or reading it may take a long time depending on its recording conditions or
- The time needed for reading varies with the number of
- groups or tracks (files) recorded on the disc. If a character other than single byte English characters is used in the file name of an MP3/JPEG file, the track/ file name will not be displayed correctly.
- The order of tracks/groups displayed on the MP3 Control screen, and the order of files/groups displayed on the JPEG Control screen may be different from that of files/folders displayed on PC's monitor screen.
- In the case of MP3 discs, since groups/tracks are played in alphabetical order, an off-the-shelf MP3 disc may be played in an order different from that indicated on the label attached to the disc.
- Playing an MP3 file including a still image may take a long time. The elapsed time is not displayed until playing starts. If playing starts, the elapsed time may not be displayed correctly.
- This system does not handle the ID3 tag of the MP3
- For an MP3 file, a disc with a sampling frequency of 44.1 kHz and transmission rate of 128 kbps is recommended.
- 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.
- The resolution of 640 x 480 is recommended for JPEG files. If a file has been recorded at a resolution of more than 640 x 480, display may take a long time. An image with a horizontal resolution of more than 2,400 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

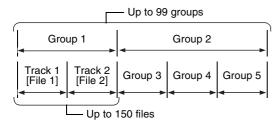
VCD, SVCD and CD consist of "tracks".

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

### MP3 [JPEG] discs

On an MP3 [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.

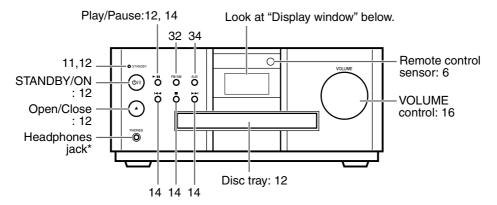
This unit simplifies the hierarchical construction of a disc and manages folders by "groups"



This unit can recognize up to 150 tracks [files] per group and up to 99 groups per disc (up to 14,850 files in total). 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.

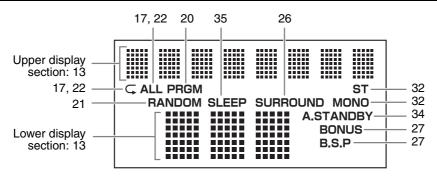
 If there is any type of files other than MP3 [JPEG] files in a folder, those files are also counted in the total file number. The numbers represent the page numbers.

## Front panel

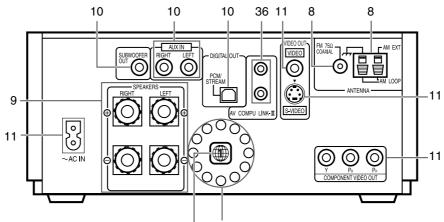


Connect a pair of headphones (commercially available) with a stereo mini plug. If the headphones are connected, the speakers and subwoofer will not produce any sound.

## **Display window**



## Rear panel



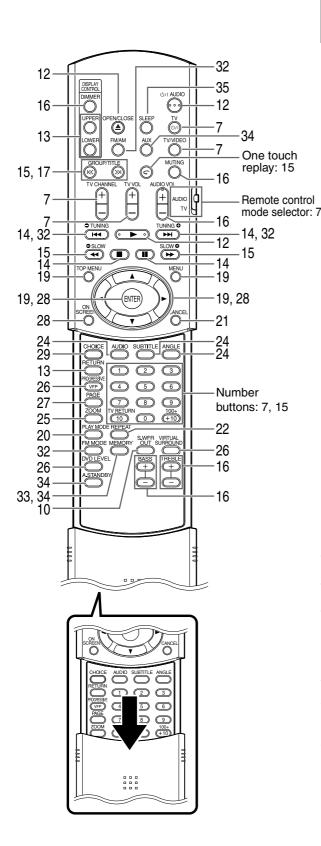
Cooling fan (inside) Region Code Number: 3

The fan rotates and stops automatically. This discharges heat generated inside the unit.

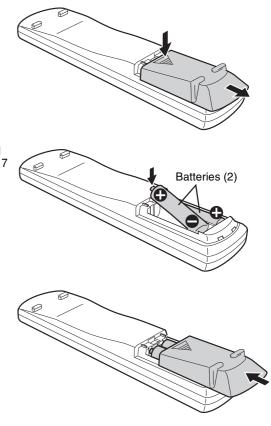
Do not cover up these holes.

## Using the remote control

The numbers represent the page numbers.



## Putting the batteries in the remote control



If the range or effectiveness of the remote control decreases, replace the batteries. Use two R6P (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.

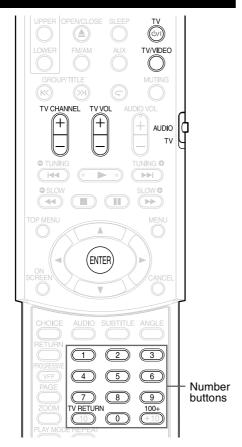
### Remote control operation

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

Slide the remote control mode selector to the TV side.



2 Keep pressing down ७/١TV.

### NOTE

Keep pressing down ปป TV until Step 4 is complete.

**3** Press ENTER and release.

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

### **Examples:**

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

## 5 Release ७/١TV.

### For TV operation

Operate the remote control by pointing it towards the TV.

TV	Turn ON/OFF the power.	
TV CHANNEL +	Change channels.	
TV VOL	Adjust volume.	
1 ~ 9 / 0 / + 10	Select channels.	
TV RETURN	Alternates between the previously selected channel and the current channel.	
TV/VIDEO	Switch TV and video input.	

<sup>\*1</sup> Make sure to slide the remote control mode selector to the TV side in advance.

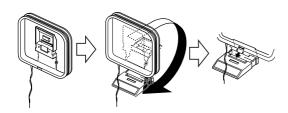
### NOTE

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

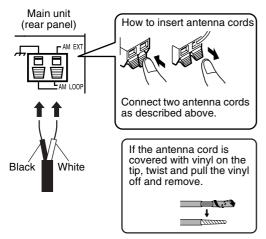
## **Connecting antennas**

## **Connecting AM loop antenna (supplied)**

1 Set up the AM loop antenna.

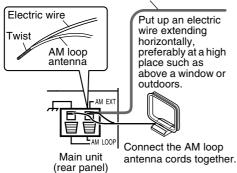


2 Connect antenna cords.

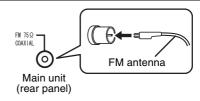


- **3** Turn the AM loop antenna to the direction of the best radio reception.
  - Locate the AM loop antenna as far away from the main unit as possible.
  - Do not locate the AM loop antenna on a metallic table or close to a TV, personal computer, etc.
     Otherwise it may result in bad radio reception.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

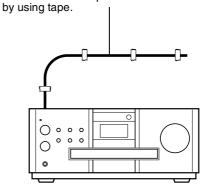
Electric wire: 3 - 5 m (9 feet 10 inches - 16 feet 5 inches) (commercially available)



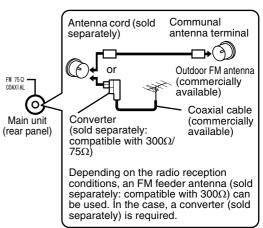
## **Connecting FM antenna (supplied)**



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



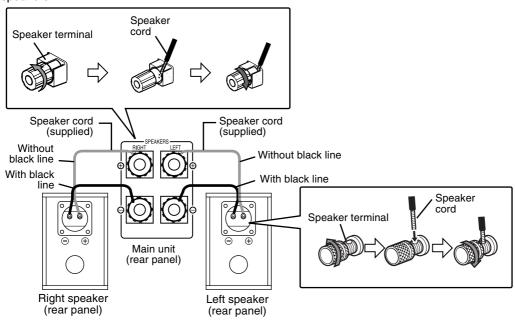
When good radio reception cannot be obtained with the supplied antenna or when using a communal antenna



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

## **Connecting speakers**

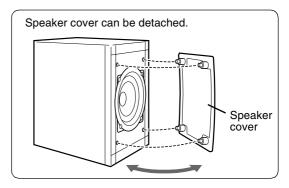
There is no difference between the left and right speakers.



### **CAUTION**

- DO NOT connect more than one speaker to one speaker terminal.
- The speakers of this product are magnetically shielded, but color irregularities may occur on the TV depending on how the speakers are installed. Keep in mind the following.
  - 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 (3<sup>15</sup>/<sub>16</sub> inches) between the TV and the speakers.

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



### NOTE

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

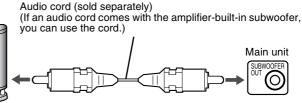
## **Connecting other devices**

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

## **Connecting subwoofer**

With an amplifier-built in subwoofer (sold separately), you can enjoy a more dynamic bass sound. Refer to the manual of the subwoofer for details.

Amplifier-built-in subwoofer (sold separately)

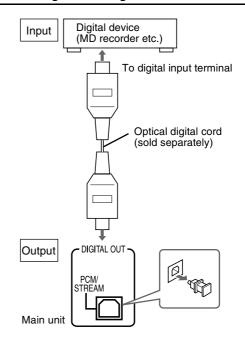


When you want to hear sound from the subwoofer, press **S.WFR OUT** on the remote control to display "SUB WFR ON" (Sub Woofer ON) on the display window on the main unit. Each time you press the button, the display toggles between "ON" and "OFF".

### NOTE

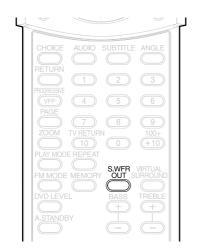
When "SUB WFR ON" is selected, bass sound from the left and right speakers will be automatically lowered and the bass sound will be emitted mainly from the subwoofer.

## Connecting with a digital device

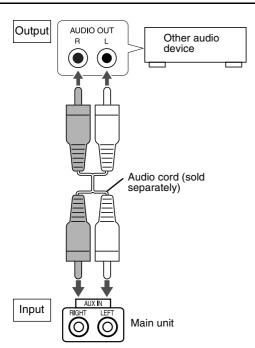


#### **CAUTION**

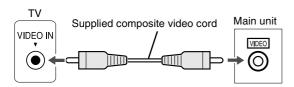
- For details of signals to be output, refer to page 30.
- If connecting the main unit with equipment with the function of a Dolby Digital decoder, the setting in "D. RANGE COMPRESSION" of "AUDIO" (propage 30) will be invalid regarding sound from the digital audio output of the main unit.



## Connecting with other audio device



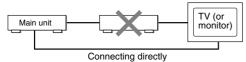
## **Connecting with TV**



### **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.

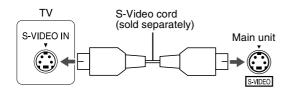


Also, when connecting the main unit to a TV with a VCR built in, there may be picture distortion while playing.

## When a clearer picture is desired

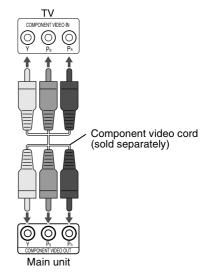
You can enjoy pictures of better quality using the following cord instead of the supplied video cord.

## Connecting by using the S-Video cord



## Connecting by using the component video cord

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



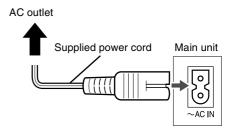
### **CAUTION**

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

### NOTE

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

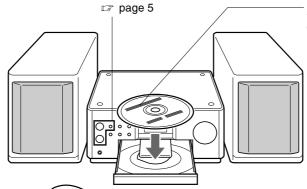
## **Connecting the power cord**



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

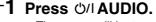
## **Playback**

DVD DVD VCD SVCD C D (Refer to page 16 for playing MP3 and JPEG.)



Place a disc with the label side facing up.

 Place an 8 cm (3<sup>1</sup>/<sub>8</sub> inches) disc in to the hollow part in the center.



- The power will be turned on and the STANDBY lamp will go off.
- Press O/I AUDIO again to turn off the power.

2 Press ≜OPEN/CLOSE to open the disc tray to load a disc.

3 Press ►(play).

The disc tray will close and playback will start.

- The power will be turned on when any of  $\bigodot$

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

pressed while the power is off.

### NOTE

- A menu screen may be displayed after starting playback of a DVD. In this case, select a desired item to playback by using the following buttons on the remote control.

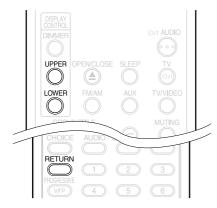
  - Select a desired item using the number buttons.
- Depending on the disc, actual operation may be different from the description.



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

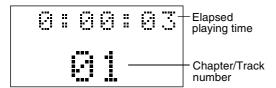
The following messages appear depending on the status of the system. (When FM/AM or AUX is selected as a source, the messages do not appear.)

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 does not match the code the system supports. (F page 3)
NO DISC	Appears when no disc is loaded.
OPEN	Appears when opening the disc tray.
CLOSE	Appears when closing the disc tray.



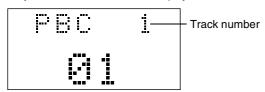
## Display window during disc playback

Example: When a DVD VIDEO or DVD AUDIO is played



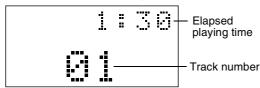
If "BONUS" or "B.S.P." is displayed during a DVD AUDIO playback, refer to page 27.

Example: When a SVCD or VCD is played

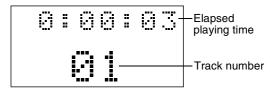


- PBC (Play Back Control): A signal recorded in a VCD (version 2.0) for controlling playback. It is possible to enjoy interactive software or software with a search function using a menu screen recorded in a PBC compatible VCD. To play a disc with the PBC function OFF, carry out the following operations.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

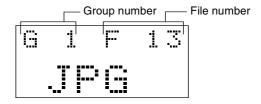
Example: When a CD is played



Example: When an MP3 disc is played



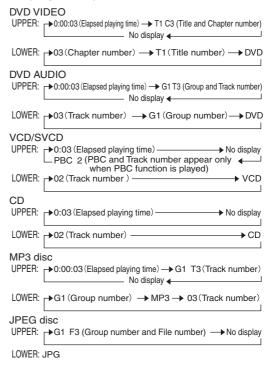
Example: When a JPEG disc is played



## To switch the display

Press **UPPER** or **LOWER**. Each time you press the button, the display will be alternated.

### **Display examples**



### NOTE

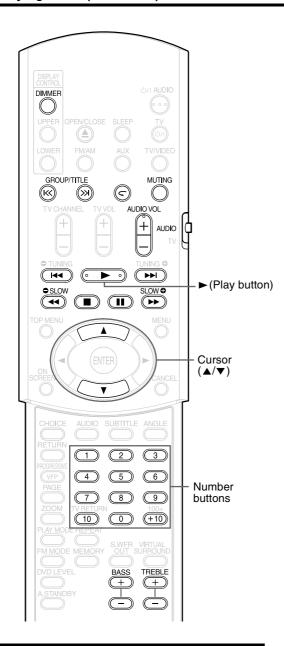
Abbreviations

G: Group

T: Title (DVD VIDEO)
Track (DVD AUDIO and MP3)

C: Chapter

F: File



# Select what you want to play by using the number buttons

DVD DVD VCD SVCD C D MP3 JPEG

### NOTE

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

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

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

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

## To stop playback

DVD DVD VCD SVCD C D MP3 JPEG

Press ■ during playback.

## To pause playback

DVD DVD VCD SVCD C D MP3 JPEG

### Press II during playback.

To resume normal playback, press ►(play).

- Press II to pause during JPEG disc slide-show.
   Press ►(play) to start playback from the next file.
- It is not possible to pause by pressing ►/II on the main unit during JPEG disc slide-show.

## To advance picture frame-by-frame

DVD SVCD VCD

## Press II during pause.

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

## Fast reverse/Fast forward search

DVD DVD VCD SVCD CD

There are two methods.

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

• Hold down |◀◀ or ▶▶|.

Fast reverse/Fast forward search can be carried out only while the button is pressed ( $\times 2 \rightarrow \times 5$ ).

### NOTE

- Fast reverse/Fast forward search cannot be carried out for MP3 and JPEG.
- For a DVD VIDEO, SVCD or VCD, 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)



## 

### NOTE

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

## **Slow Motion Playback**



### pause.

- Each time you press the button, the speed increases.
- Press II to pause playback, and press ►(play) to resume normal playback.

### 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 ▶ during playback\*.

- Each time you press the button, the previous or next beginning of chapter/track/file to the current position will be skipped to.
- Press I◄◄ once to skip back to the beginning of the chapter or track currently being played (except for JPEG).
- Press GROUP/TITLE ≫ or ₭ to select the title or group.
- During playback of a JPEG disc, press ►►I or cursor ▼ to play the next file, or press I◄< or cursor▲ to play the previous file.

### 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

**Examples:** 

5: 5

**15**: (+10) → (5)

20: (+10) → (10)

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



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



: Play



: Pause





: Fast reverse/Fast forward search



Slow Motion Playback (reverse/ forward directions)



: Containing multi-angle views (**□** page 24)

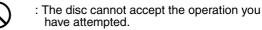


Containing multi-audio languages (**□** page 24)

: Containing multi-subtitle languages



(**□** page 24)



# To change the brightness of the display window (DIMMER)

### Press DIMMER repeatedly.

 The modified brightness will be stored even after the power is turned off.

The items below can be carried out for all sources.

## **Adjusting the volume**

### Press AUDIO VOL +/-.

### NOTE

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

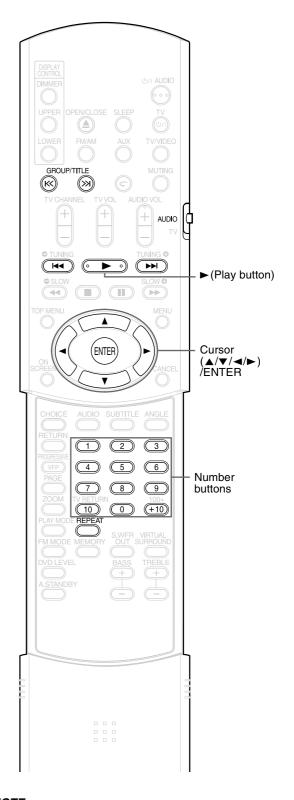
## **Adjusting sound quality**

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

## 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 tuned 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 JPEG

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

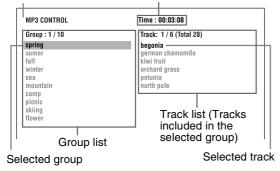
For a JPEG disc, read "track" as "file".

#### NOTE

When playing a disc containing both MP3 and JPEG files, set one of them to be played ( page 29).

## Load a disc.

Elapsed time of the track currently being TV screen played (MP3 only).



- 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.
- **5** Press ►(play) or ENTER.

#### NOTE

- GROUP/TITLE K<, ≫ can also be used in Step 2.
- The number buttons can also be used in Step 4. In this case, Steps 3 and 5 are 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 3 is not needed.

## Repeat playback

## MP3 JPEG

## Press REPEAT while the disc is stopped.

Each time you press the button, the Repeat type will be alternated.

Repeat types	Display on the TV screen	Display on the display window on the main unit
Repeats the current track (only for MP3).	REPEAT TRACK	Ç
Repeats the current group.	REPEAT GROUP	\$\all(<*
Repeats the entire disc.	REPEAT ALL	Ģ ALL
Cancels repeat.	No display	No display
Repeats the current track during a Program or Random Playback (only for MP3).	REPEAT STEP	Ç
Repeats all programmed tracks or the all tracks for Random play (only for MP3).	REPEAT ALL	Ç ALL

<sup>\* &</sup>gt; represents blinking.

## 2 Press ►(play).

### NOTE

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

## Slide-Show Playback JPEG

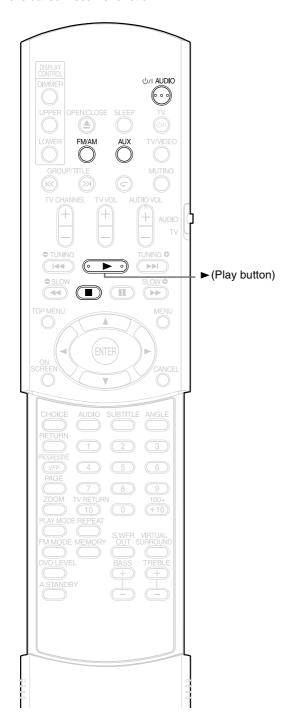
- In Step 5, for a JPEG disc, when ►(play) is pressed, files will be continuously played from the selected file (Slide-Show Playback), and when ENTER is pressed, only a selected file will be played.
- Display time for a file in Slide-Show Playback is about 3 seconds.
- When all files are played through,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

## Resume Playback

## DVD DVD VCD SVCD

When playback is stopped in the middle, playback can be started from the stopped scene.

This is called Resume function.



## How to suspend playback

Perform any of the following operations during playback.

Press ■ once.\*

Press O/I AUDIO to turn off the power.

Change the source to FM/AM or AUX.\*

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

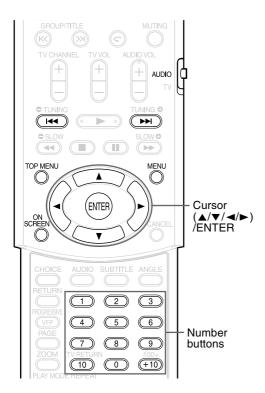


## To start playback from the stored position

Press ►(play).

### 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 at this time, "RESUME OFF" will be displayed and 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 from the menu

## DVD DVD VCD SVCD

Press MENU or TOP MENU while the disc is stopped or during playback\*1.

The disc menu screen will be displayed.

- 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" (r page 15).
  - When the menu screen has a couple of pages, press | ◀ or ▶ I to change the page (only for a VCD and SVCD).

## 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

## **Designate the time** (Time search)

VIDEO AUDIO VCD C D

**Press ON SCREEN twice during** playback\*2.

The menu bar will be displayed (propage 28).

**2** Press cursor **◄/▶** to select ②**→**].



3 Press ENTER.

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

> • Input "hours", "minutes" and "seconds" for a DVD VIDEO and DVD AUDIO, and input "minutes" and "seconds" for a CD and VCD. "minutes" and "seconds" can be omitted.

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



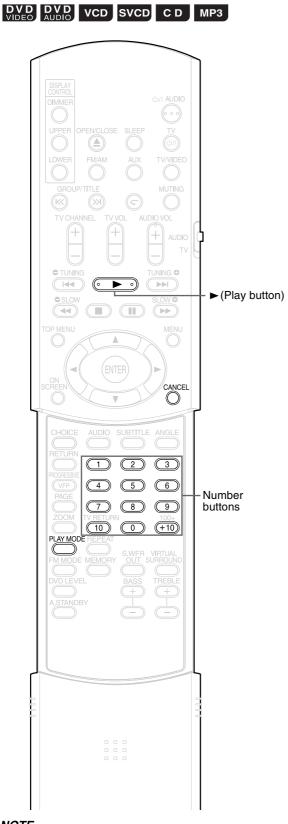
 If you input wrong numbers, press cursor to delete the numbers and re-input.

## **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 CD, this operation can always be carried out, while, for a VCD, 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 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.



# Play the disc in the desired order (Program Playback)

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

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

"PRGM" is an abbreviation for PROGRAM.

Example: For DVD VIDEO



## **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: 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 number of chapters or tracks input is greater than 99, "FULL" will be displayed.
- In the case of a CD, SVCD or VCD, when the total playback time reaches 99 minutes 59 seconds, "--:--" will be displayed on the display window (It is possible to continue programming).

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



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

- (1) Select a title/group using the number buttons.
  - Display example of the upper display window: T2 C--
- (2) Designate a chapter/track number using the number buttons.
  - Display example of the upper display window: T2 C3
  - Refer to "How to use the number buttons" (page 15).
  - The program number will be displayed on the lower display window (Example: "P2").
- (3) Repeat the above operations (1) and (2) to complete the program. Then, advance to Step 3.

## **3** Press ►(play).

- To resume normal playback, press PLAY MODE repeatedly to display "NORMAL" 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.
  - Hold down CANCEL until "CLEAR!" appears on the display window with the program preference screen displayed (if CANCEL is pressed and released quickly, programs will be erased one by one).
  - · Open the disc tray
  - Turn off the power

# Playing the disc in a random order (Random Playback)

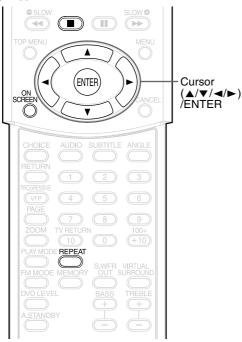
- Press PLAY MODE repeatedly to display "RANDOM" on the display window on the main unit while the disc is stopped.
  - "RANDOM" will also be displayed on the TV screen.

## **2** Press ►(play).

- The same chapter or track will not be played twice.
- To resume normal playback, press PLAY MODE repeatedly to display "NORMAL" on the display window on the main unit while the disc is stopped.
- Random Playback will also be cancelled 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 type will be alternated.

### **Example:**

TV screen Display window on the main unit

### For DVD VIDEO

Repeat types	Display on the TV screen	Display on the main unit
Repeats the current chapter	CHAP.	Ç
Repeats the current title	TITLE	C)ALL(<*
Cancels repeat	OFF	No display

#### For DVD AUDIO

Repeat types	Display on the TV screen	Display on the main unit
Repeats the current track	TRACK	U
Repeats the current group	GROUP	C)ALL(<*
Cancels repeat	(*)OFF	No display

<sup>\* &</sup>gt; represents blinking.

#### For CD/VCD/SVCD

Repeat types	Display on the TV screen	Display on the main unit
Repeats the current track	TRACK	<b>U</b>
Repeats all tracks	<b>Č</b> ALL	Ç ALL
Cancels repeat	<b>Č</b> )OFF	No display

### NOTE

- For a DVD AUDIO and CD, this operation can always be carried out, while, for a VCD and SVCD, the operation can be carried out when the disc is stopped or during playback without the PBC function.
- It is possible to set Repeat on the menu bar. For how to operate, refer to "Playing the designated part repeatedly (A-B Repeat Playback)" ( page 23).
- The abbreviations displayed on the main unit are as follows.

TRK: Track
CHP: Chapter
TI.: Title
GR.: Group

 For a DVD VIDEO and DVD AUDIO, if the source is switched to FM/AM or AUX, the Repeat mode will be cancelled.

## Repeat Playback during Program or Random Playback

Repeat types	Display on the TV	Display on the main unit
	screen	main unii
Repeats the current	STEP STEP	_
chapter or track	or	Ģ
onapter of track	REPEAT STEP	
Repeats all programmed tracks or all the tracks in Random Playback	ALL or REPEAT ALL	<b>Ģ</b> ALL
Cancels repeat	OFF or No display	No display

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



Press ON SCREEN twice during playback.

The menu bar (page 28) will be displayed.

- 2 Press cursor 
  to select
- **3** Press ENTER.
- 4 Press cursor ▲/▼to display

A-B

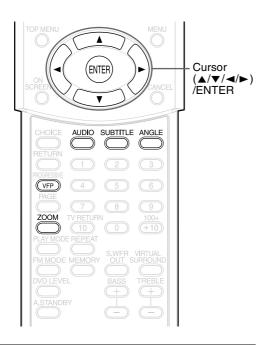
Other Repeat modes can be selected here. For other Repeat modes, refer to "Playing the title/chapter/group/track/all tracks repeatedly (REPEAT)" ( page 22).

- 5 Press ENTER at the start point of the part to be repeated (designating A point).
  - The icon on the menu bar will be 🖒 🕒 .
- 6 Press ENTER at the end point of the part to be repeated (designating B point).

  - A-B Repeat Playback will be cancelled by carrying out the following operations.
    - Press ■.
    - Select 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.



## **Selecting the subtitles**

DVD SVCD DVD AUDIO

(only for moving image)

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

Example:



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

### NOTE

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

## **Selecting the audio language**

DVD DVD VCD SVCD

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

**Example:** 



- 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.

### NOTE

It is possible to operate by using the menu bar (27 page 28).

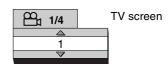
## Selecting a view angle

DVD DVD

(only for moving image)

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

Example:



- 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.

#### NOTE

It is possible to operate by using the menu bar (\$\inspec \text{page 28}\$).

## **Enlarging the picture** (ZOOM)

DVD VCD SVCD DVD

(only for moving image)

- Press ZOOM during playback or while paused.
  - Each time you press the button, the picture magnification will be changed (×1.5 only for a VCD and SVCD).
- 2 Select the portion you want to see by using cursor **△/**▼/**⊲**/**⊳**.
  - This operation cannot be carried out when the magnification is  $\times 1$ .
  - To resume normal playback, select ×1 in Step 1.

## Adjusting the picture

DVD DVD VCD SVCD JPEG

## Press VFP during playback or while paused.

"VFP SET" will appear on the display window on the main unit and the current setting will be displayed on the TV screen.



- Gamma: Controls brightness of neutral tints while maintaining brightness of dark and bright portions.
- · Sharpness: Controls screen sharpness.

## 2 Press cursor <-- /> To select VFP mode.

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

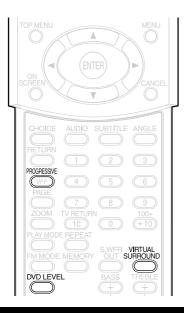
- 3 Press cursor ▲/▼to select an item to be adjusted.
- **4** Press ENTER.

Example: TV screen GAMMA OFF

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

### 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 (VIRTUAL SURROUND)

## DVD DVD

### NOTE

Virtual Surround can be set only for multi-channel sound (AC3, LPCM, PPCM and DTS). Virtual Surround cannot be set for 2 channel audio such as PCM stereo or Dolby Surround.

## Press VIRTUAL SURROUND during playback.

Example: TV screen

VIRTUAL SURROUND OFF

VIRTUAL SURROUND OFF

- Each time you press the button, the Surround mode will be alternated between ON/OFF.
- When ON, "SURROUND" appears on the display window.
- When switching the Surround mode, the sound will be intermittent.

### NOTE

- Virtual Surround is effective for the speakers and headphones.
- "V.SUR." displayed on the display window is an abbreviation of "Virtual Surround".

## Adjusting playback level (DVD LEVEL)

## DVD DVD VIDEO AUDIO

The audio of a DVD VIDEO and DVD AUDIO 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 "NOR" (Normal), "MID" (Middle) and "HIG" (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.
- This operation can be carried out while the disc is stopped or paused.

## **Enjoying better pictures** (PROGRESSIVE)

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 (pr 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.

### NOTE

Progressive mode:

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

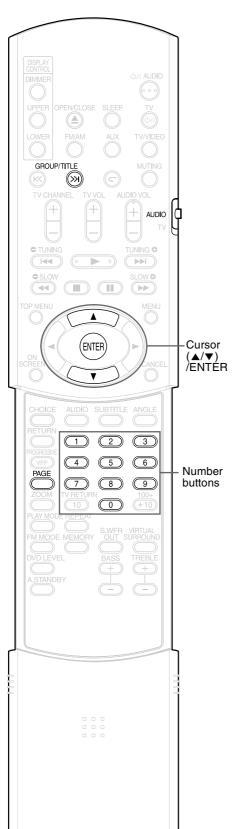
Interlace mode:

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

## Display "PROGRESS" by holding down PROGRESSIVE during playback or while the disc is stopped, or when there is no disc loaded.

- Each time you hold down the button, the mode will be alternated between the Progressive mode and the Interlace mode.
- The display window displays "PROGRESS" when in the Progressive mode, and "INTER." when in the Interlace mode.





### NOTE

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



## Playing the Bonus Group

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

### NOTE

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

- Press GROUP/TITLE ≫ repeatedly during playback to select a bonus group.
  - "KEY\_\_\_" appears on the TV screen, and on the display window on the main unit.
- **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.

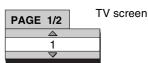
#### NOTE

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

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 ▲/▼.

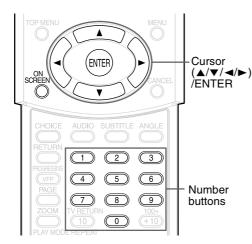
**Example:** 



**2** Wait for a few seconds or press ENTER.

## 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.

## Press ON SCREEN twice.

"ON SCREEN" will appear on the display window on the main unit. The status bar and the menu bar will appear on the TV screen.



The above is an example for a DVD VIDEO.

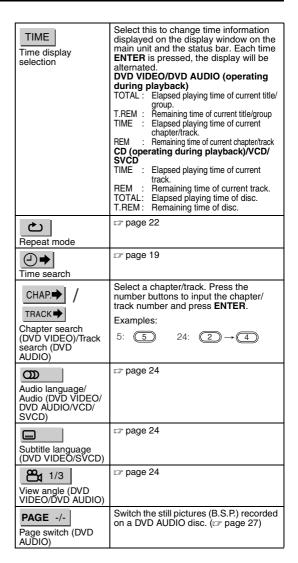
## 2 Press cursor ✓/▶ to select an item to be operated.

## **3** Press ENTER.

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

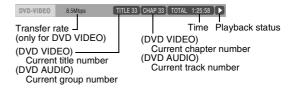
### **Functions list**

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)



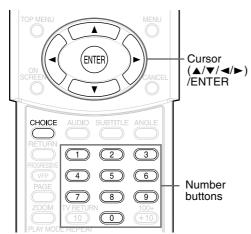
VCD/SVCD/CD (the example below is for a CD)



### 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.

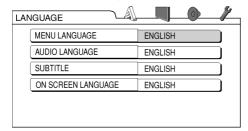
### NOTE

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

  TV
- 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 CHOICE while the disc is stopped or no disc is loaded ("NO DISC" is displayed).
  - "SETTING" will appear on the display window on the main unit and 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 NORMAL: 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).	
	16: 9 AUTO: Select this when your TV is an ordinary wide	
	4:3 LB (Letter Box): Select this when the aspect ratio of your TV is conventional 4:3. While viewing a wide screen picture, the black bars appear on the top and bottom of the screen.	
	4:3 PS (Pan Scan): Select this when the aspect ratio of your TV is conventional 4:3. While viewing a wide screen picture, the left and right edges of the picture will not be shown on the screen. (If the disc is not compatible with Pan Scan, the picture will be displayed at the Letter Box ratio.)	
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).	
MP3/JPEG	If there are both MP3 and JPEG files on a disc, you can select which files to play. When the preference has been changed, open/close	

the tray and turn on the power again. (A disc with only one of MP3 file or JPEG file recorded can be played regardless of this preference.)



## 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 Virtual Surround is ON, 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.



## **OTHERS**

	T
Items	Contents ( : initial setting)
RESUME	Select ON /OFF. ( page 18)
ON SCREEN GUIDE	Select ON /OFF. (127 page 15)
AV COMPULINK MODE	(⊯ page 36)
	DVD1: Connect to the video-3 input on the TV set or the DVD input on the AV amplifier.
	DVD2: Connect to the video-1 input of the TV set.
	DVD3: Connect to the video-2 input of the TV set.
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

Disvisant dias	DIGITAL AUDIO OUTPUT preference		
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	48 kHz, 16 bits stereo linear PCM		
44.1/88.2/176.4k Hz, 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	stereo 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 bits linear PCM	
MP3 disc	No output		

• For a DVD VIDEO without content protection set, there is a 20 bit or 24 bit output at the digital audio output terminal.

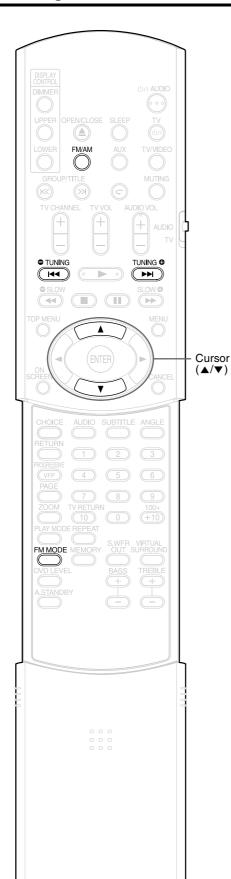
AD Andorra  AE United Arab Emira  AF Afghanistan  AG Antigua and Barb  AI Anguilla  AL Albania  AM Armenia  AN Netherlands Antill	
AE United Arab Emira AF Afghanistan AG Antigua and Barb AI Anguilla AL Albania AM Armenia	
AF Afghanistan AG Antigua and Barb AI Anguilla AL Albania AM Armenia	ates
AG Antigua and Barb AI Anguilla AL Albania AM Armenia	2100
Al Anguilla AL Albania AM Armenia	uda
AL Albania AM Armenia	uua
AM Armenia	
AN Natharlande Antill	
	es
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 Darussalar	n
BO Bolivia	
BR Brazil	
BS Bahamas	
BT Bhutan	
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	
CR Costa Rica CU Cuba	
CR Costa Rica CU Cuba CV Cape Verde	
CR Costa Rica CU Cuba CV Cape Verde CX Christmas Island	
CR Costa Rica CU Cuba CV Cape Verde CX Christmas Island CY Cyprus	
CR Costa Rica CU Cuba CV Cape Verde CX Christmas Island CY Cyprus	
CR Costa Rica CU Cuba CV Cape Verde CX Christmas Island CY Cyprus CZ Czech Republic	
CR Costa Rica CU Cuba CV Cape Verde CX Christmas Island CY Cyprus CZ Czech Republic DE Germany	
CR Costa Rica CU Cuba CV Cape Verde CX Christmas Island CY Cyprus CZ Czech Republic DE Germany DJ Djibouti	
CR Costa Rica CU Cuba CV Cape Verde CX Christmas Island CY Cyprus CZ Czech Republic DE Germany DJ Djibouti DK Denmark	
CR Costa Rica CU Cuba CV Cape Verde CX Christmas Island CY Cyprus CZ Czech Republic DE Germany DJ Djibouti DK Denmark DM Dominica	die
CR Costa Rica CU Cuba CV Cape Verde CX Christmas Island CY Cyprus CZ Czech Republic DE Germany DJ Djibouti DK Denmark DM Dominica DO Dominican Republic	olic
CR Costa Rica CU Cuba CV Cape Verde CX Christmas Island CY Cyprus CZ Czech Republic DE Germany DJ Djibouti DK Denmark DM Dominica DO Dominican Repub DZ Algeria	olic
CR Costa Rica CU Cuba CV Cape Verde CX Christmas Island CY Cyprus CZ Czech Republic DE Germany DJ Djibouti DK Denmark DM Dominica DO Dominican Repub DZ Algeria EC Ecuador	olic
CR Costa Rica CU Cuba CV Cape Verde CX Christmas Island CY Cyprus CZ Czech Republic DE Germany DJ Djibouti DK Denmark DM Dominica DO Dominican Repub DZ Algeria EC Ecuador EE Estonia	ilic
CR Costa Rica CU Cuba CV Cape Verde 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	olic
CR Costa Rica CU Cuba CV Cape Verde CX Christmas Island CY Cyprus CZ Czech Republic DE Germany DJ Djibouti DK Denmark DM Dominica DO Dominican Repub DZ Algeria EC Ecuador EE Estonia	olic

ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands (Malvinas)
FM	Micronesia
	(Federated States of)
FO	Faroe Islands
FR	France
FX	France, Metropolitan
GA GB	Gabon
GD	United Kingdom 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 IL	Ireland Israel
IN	India
IO	British Indian Ocean
, 0	Territory
IQ	Iraq
IR	Iran (Islamic Republic of)
IS	Iceland
IT	Italy
JM	Jamaica
JO	Jordan
JР	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
LB	Democratic Republic
I B	L LEDADOD

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
140	Islands
MQ	Martinique
MR	Mauritania
MS MT	Montserrat
	Malta
MU	Mauritius 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
NO NP	Norway Nepal
NP	Nepal Nauru Niue
NP NR	Nepal Nauru
NP NR NU	Nepal Nauru Niue
NP NR NU NZ	Nepal Nauru Niue New Zealand
NP NR NU NZ OM PA	Nepal Nauru Niue New Zealand Oman Panama Peru
NP NR NU NZ OM PA PE PF	Nepal Nauru Niue New Zealand Oman Panama Peru French Polynesia
NP NR NU NZ OM PA PE PF	Nepal Nauru Niue New Zealand Oman Panama Peru French Polynesia Papua New Guinea
NP NR NU NZ OM PA PE PF PG	Nepal Nauru Niue New Zealand Oman Panama Peru French Polynesia Papua New Guinea Philippines
NP NR NU NZ OM PA PE PF PG PH	Nepal Nauru Niue New Zealand Oman Panama Peru French Polynesia Papua New Guinea Philippines Pakistan
NP NR NU NZ OM PA PE PF PG PH PK PL	Nepal Nauru Niue New Zealand Oman Panama Peru French Polynesia Papua New Guinea Philippines Pakistan Poland
NP NR NU NZ OM PA PE PF PG PH	Nepal Nauru Niue New Zealand Oman Panama Peru French Polynesia Papua New Guinea Philippines Pakistan Poland Saint Pierre and
NP NR NU NZ OM PA PE PF PG PH PK PL	Nepal Nauru Niue New Zealand Oman Panama Peru French Polynesia Papua New Guinea Philippines Pakistan Poland Saint Pierre and Miquelon
NP NR NU NZ OM PA PE PF PG PH PK PL PM	Nepal Nauru Niue New Zealand Oman Panama Peru French Polynesia Papua New Guinea Philippines Pakistan Poland Saint Pierre and Miquelon Pitcairn
NP NR NU NZ OM PA PE PF PG PH PK PL PM PN PR	Nepal Nauru Niue New Zealand Oman Panama Peru French Polynesia Papua New Guinea Philippines Pakistan Poland Saint Pierre and Miquelon Pitcairn Puerto Rico
NP NR NU NZ OM PA PE PF PG PH PK PL PM PN PR	Nepal Nauru Niue New Zealand Oman Panama Peru French Polynesia Papua New Guinea Philippines Pakistan Poland Saint Pierre and Miquelon Pitcairn Puerto Rico Portugal
NP NR NU NZ OM PA PE PF PG PH PK PL PM PN PR PT PW	Nepal Nauru Niue New Zealand Oman Panama Peru French Polynesia Papua New Guinea Philippines Pakistan Poland Saint Pierre and Miquelon Pitcairn Puerto Rico Portugal Palau
NP NR NU NZ OM PA PE PF PG PH PK PL PM PN PR PT PW PY	Nepal Nauru Niue New Zealand Oman Panama Peru French Polynesia Papua New Guinea Philippines Pakistan Poland Saint Pierre and Miquelon Pitcairn Puerto Rico Portugal Palau Paraguay
NP NR NU NZ OM PA PE PF PG PH PK PL PM PN PR PT PW PY QA	Nepal Nauru Niue New Zealand Oman Panama Peru French Polynesia Papua New Guinea Philippines Pakistan Poland Saint Pierre and Miquelon Pitcairn Puerto Rico Portugal Palau Paraguay Qatar
NP NR NU NZ OM PA PE PF PG PH PK PL PM PN PR PT PW PY QA RE	Nepal Nauru Niue New Zealand Oman Panama Peru French Polynesia Papua New Guinea Philippines Pakistan Poland Saint Pierre and Miquelon Pitcairn Puerto Rico Portugal Palau Paraguay Qatar Réunion
NP NR NU NZ OM PA PE PF PG PH PK PL PM PN PR PT PW PY QA RE RO	Nepal Nauru Niue New Zealand Oman Panama Peru French Polynesia Papua New Guinea Philippines Pakistan Poland Saint Pierre and Miquelon Pitcairn Puerto Rico Portugal Palau Paraguay Qatar Réunion Romania
NP NR NU NZ OM PA PE PF PG PH PK PL PM PN PR PT PW PY QA RE RO RU	Nepal Nauru Niue New Zealand Oman Panama Peru French Polynesia Papua New Guinea Philippines Pakistan Poland Saint Pierre and Miquelon Pitcairn Puerto Rico Portugal Palau Paraguay Qatar Réunion Romania Russian Federation
NP NR NU NZ OM PA PE PF PG PH PK PL PM PN PR PT PW PY QA RE RO RU RW	Nepal Nauru Niue New Zealand Oman Panama Peru French Polynesia Papua New Guinea Philippines Pakistan Poland Saint Pierre and Miquelon Pitcairn Puerto Rico Portugal Palau Paraguay Qatar Réunion Romania Russian Federation Rwanda
NP NR NU NZ OM PA PE PF PG PH PK PL PM PN PR PT PW QA RE RO RU RW SA	Nepal Nauru Niue New Zealand Oman Panama Peru French Polynesia Papua New Guinea Philippines Pakistan Poland Saint Pierre and Miquelon Pitcairn Puerto Rico Portugal Palau Paraguay Qatar Réunion Romania Russian Federation Rwanda Saudi Arabia
NP NR NU NZ OM PA PE PF PG PH PK PL PM PN PR PT PW PY QA RE RO RU RW	Nepal Nauru Niue New Zealand Oman Panama Peru French Polynesia Papua New Guinea Philippines Pakistan Poland Saint Pierre and Miquelon Pitcairn Puerto Rico Portugal Palau Paraguay Qatar Réunion Romania Russian Federation Rwanda

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
UY	Uruguay
UZ	Uzbekistan
VA	Vatican City State
*^	
1/0	(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
YU ZA	Yugoslavia South Africa
ZA	
ZA ZM	South Africa Zambia
ZA	South Africa

## Listening to a radio broadcast



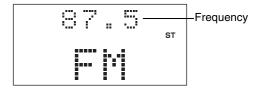
You can tune in to FM or AM.

## **Selecting a station**

## Press FM/AM.

Each time you press the button, the band will be alternated between FM and AM.

### Example:



## 2 Press TUNING o or TUNING o to select the station (frequency).

### **Automatic tuning:**

Hold down **TUNING ⊕** or **TUNING ⊕** until the system starts searching, and then release the button.

When a station of sufficient signal strength is tuned in to, the system stops searching automatically.

To stop searching manually, press **TUNING**  $\bullet$  or **TUNING**  $\bullet$ .

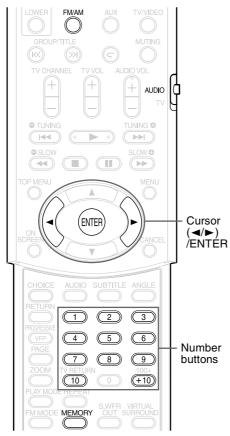
### Manual tuning:

Each time you press **TUNING ⊕** or **TUNING ⊕**, the frequency changes.

- When an FM stereo program is received, the "ST" (Stereo) indicator lights.
- You can also select the station with cursor ▲/▼.

### 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 ("MONO" lights). 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.

- Select a station you want to store (

  page 32 for how to select).
- **2** Press MEMORY.

Figures (memory number) blink on the display window for about 5 seconds.

- 3 Select the number you want to store by pressing cursor 
  ✓/►
  while the memory number is blinking.
  - You can also select the number by using the number buttons.
  - Refer to "How to use the number buttons" ( page 15).
- 4 Press MEMORY or ENTER while the selected number is blinking.

"SET" will be displayed and the selected station will be stored.

### NOTE

Storing a new station to a used number erases the previously stored station.

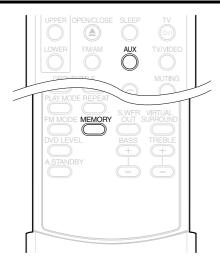
## Tuning in to a preset station

- Press FM/AM repeatedly 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 cursor </ >
✓/►.

## Listening to the sound of other audio device



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

Press AUX.

connected.

The source changes to AUX.

- **2** Play the other audio device.

  For details, refer to the manual of the device
- Adjust the volume and the sound quality of the system (propage 16).

## Adjust the sound input level of the audio device

You can adjust the sound input level of another audio device connected to the AUX jack.

Press AUX.

The source changes to AUX.

2 Hold down MEMORY until an input level is displayed.

Each time you hold down the button, it switches as follows:

LEVEL 1: Select this normally.



LEVEL 2: Select this when the input level from the other device is too high and the sound is distorted.

The initial setting is "LEVEL1".

## **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" is displayed).

"A.S.ON" (Auto Standby On) and "A.STANDBY" will be lit on the display window on the main unit.

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

This means that the power will be turned off automatically if there is no operation for 3 minutes. And, 20 seconds before the power is turned off, "POWER OFF" will appear blinking.

## **Releasing Auto Standby**

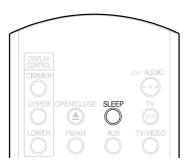
#### Press A.STANDBY.

"A.S.OFF" (Auto Standby Off) will appear and "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.

# Sleep Timer

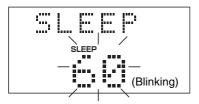


When the time you specify elapses, the system will be turned off by itself.

#### Press SLEEP.

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

**Example:** When Sleep Timer is set to 60 minutes



Sleep Timer will be automatically set in a few seconds, and the indication will disappear.

#### NOTE

When Sleep Timer is set, the display window darkens automatically.

## **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 "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

Turn off the power. And while holding down ■(Stop) on the main unit, press ▲(Open/Close). "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.

# **Using AV COMPU LINK**

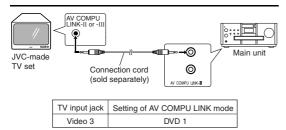
When the TV set or device to be connected is a JVC product equipped with the AV COMPU LINK-II or -III jack, connecting them to the AV COMPU LINK jack on the system will allow you to control the other devices by operating one device.

## **Connection and setting**

#### NOTE

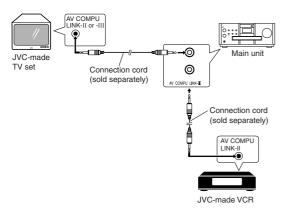
- Refer to "Others" (
   page 30) to set the AV COMPU LINK mode.
- Also carefully read manuals of devices to be connected.

#### Connection with a TV set



 Connect to the Video 3 (DVD) input jack on your TV set. If Video 3 is for DV/Movie input, read the following descriptions:

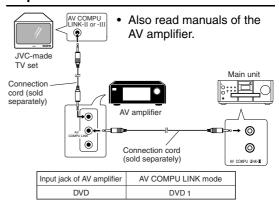
#### Connection with a TV set and a VCR



TV input jack		AV COMPU LINK mode	Remote-control code of VCR
	Video 1 DVD 2		В
	Video 2	DVD 3	Α

 When using with initial settings, connect to Video 3 (if not set to DV/Movie input). Set the remotecontrol code to "A".

# Connection with a TV set and an AV amplifier



#### **NOTE**

- Connecting DVD sound output to a sound input jack for any device other than a DVD disables proper operation.
- When connecting component video output to a TV set, change setting of the AV COMPU LINK mode in this system to "DVD 1". Do not connect to the Svideo jack on the AV amplifier.

## **Operations**

- Turn on the main power of the TV set.
- 2 Insert a disc or videotape into the source device (the system or a VCR).
- **3** Press the play button on the source device.
  - · The TV set will be turned on.
  - TV input will be switched to external input (Video 1, 2 or 3) of the source device.
  - The AV amplifier will be turned on.
  - The source of the AV amplifier will be switched to the device on which the play button has been pressed.

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)
- "PLAYABLE Err" is displayed on the display window.

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

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

#### About images

#### No picture appears.

- The video cord is not connected correctly.
   → IF page 11
- Both of the component video jack and S-video 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 "PROGRESS".
  - $\rightarrow$  Set the scan mode to "INTER.". ( $\square$  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. ( $\square$  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.
  - $\rightarrow \square$  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 "NOR".
  - $\rightarrow$  Set to other than "NOR". ( $\square$  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.

- "SUB WFR" 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.
     (LF 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.
  - $\rightarrow \square$  page 35

# "TRAY Err" is displayed on the display window.

The tray is not open fully due to an obstacle.
 → Close the tray and remove the obstacle.

#### "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

	r		·
Code	Language	Code	Language
AA	Afar	MK	Macedonian
AB	Abkhazian	ML	Malayalam
AF AM	Afrikaans	MN MO	Mongolian Moldavian
AR	Ameharic Arabic	MR	Marathi
AS	Assamese	MS	Malay (MAY)
AY	Aymara	MT	Maltese
AZ	Azerbaijani	MY	Burmese
BA	Bashkir	NA	Nauru
BE	Byelorussian	NE	Nepali
BG	Bulgarian	NL	Dutch
BH	Bihari	NO	Norwegian
BI	Bislama	OC	Occitan
BN	Bengali, Bangla	OM	(Afan) Oromo
BO	Tibetan	OR	Oriya
BR	Breton	PA	Panjabi
CA CO	Catalan Corsican	PL PS	Polish 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 GL	Scots Gaelic Galician	SM SN	Samoan Shona
GN	Galician	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 JI	Hebrew Yiddish	TI TK	Tigrinya 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 LV	Lithuanian	XH YO	Xhosa Yoruba
MG	Latvian, Lettish Malagasy	ZU	Yoruba Zulu
MI	Maori	20	∠uiu

**Specifications** Reference

General

Power source: AC 120 V √, 60 Hz Power consumption: 24 W (in operation) 0.8 W (on standby) Weight:

3.0 kg (6.7 lbs)

External dimensions 232 mm  $\times$  100 mm  $\times$  269 mm  $(9^3/_{16}$ inches  $\times 3^{15}/_{16}$ inches  $\times$  $(W \times H \times D)$ :

10<sup>5</sup>/<sub>8</sub> inches)

DVD player

Playable discs: DVD VIDEO, DVD AUDIO, VCD,

Super VCD, CD, CD-R/RW (CD, VCD, MP3, JPEG format), DVD-R/

RW (video format)

Video output

Color system: NTSC Horizontal resolution: 500 lines

Composite X1: 1.0 V (p-p)/75 Ω,

synchronization negative S-video X1: Y output: 1.0 V (p-p)/75  $\Omega$ ,

synchronization negative C output: 0.286 V (p-p)/75 Ω

Component X1: Y output: 1.0 V (p-p)/75  $\Omega$  $P_B/P_R$  output: 0.7 V (p-p)/75  $\Omega$ 

Audio output

Analog sound output: Speakers X2

> **Output power:** 30 W per channel,

min. RMS, at 4  $\Omega$  at 1 kHz with no more than 10% total harmonic distortion

Fitting impedance: 4  $\Omega$  to 16  $\Omega$ Headphones X1: 11 mW/32  $\Omega$ Fitting impedance: 16  $\Omega$  to 1 k $\Omega$ 500 mVrms/10 k $\Omega$ Subwoofer X1:

Digital sound output:

Optical X1: -21 dBm to -15 dBm

Other output

AV COMPU LINK X2 (ø3.5)

Audio input

Sound input:  $AUX \times 1$ Level 1: 250 mV/50 kΩ Level 2: 500 mV/50 k $\Omega$ 

**Tuner** FM tuner:

> Receiving frequency: 87.5 MHz to 108.0 MHz Antenna: 75  $\Omega$ - unbalanced type

AM tuner:

Receiving frequency: 530 kHz to 1710 kHz

Antenna: External antenna jack (loop

antenna)

Speaker

Type: 1-way bass-reflex type

Magnetically shielded type

Speaker: 8 cm ( $3^3/_{16}$  inches) cone  $\times 1$ 

Power handling capacity: 30 W Impedance: 4Ω

Sound pressure level: 81 dB/W·m

Dimension (W  $\times$  H  $\times$  D): 120 mm  $\times$  161 mm  $\times$  239 mm

 $(4^3/4 \text{ inches} \times 6^3/8 \text{ inches} \times$ 

9<sup>7</sup>/<sub>16</sub> inches)

Weight (1 unit): 1.6 kg (3.6 lbs)

Designs and Specifications are subject to change without notice.

# **Authorized Service Centers**



#### HOW TO LOCATE YOUR JVC SERVICE CENTER

TOLL FREE: 1 (800) 537-5722 http://www.jvc.com

#### Dear Customer.

In order to receive the most satisfaction from your purchase, please read the instruction booklet before operating the unit. In the event that repairs are necessary, please call 1 (800) 537-5722 for your nearest authorized servicer or visit our website at **www.JVC.com** 

Remember to retain your Bill of Sale for Warranty Service.

# Do not service the television yourself

#### Caution

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

#### **Accessories**

To purchase accessories for your JVC product, please call toll free: 1 (800)882-2345 or on the web at www.JVC.com

JVC

#### LIMITED WARRANTY

#### **CONSUMER VIDEO 1-90**

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

PARTS 1 YR LABOR 90 DAYS

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

#### WHAT WE WILL DO:

If this product is found to be defective, JVC will repair or replace defective parts at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products and parts thereof may be brought to a JVC authorized service center on a carry-in basis except for Television sets having a screen size 25 inches and above which are covered on an in-home basis.

#### WHAT YOU MUST DO FOR WARRANTY SERVICE:

Return your product to a JVC authorized service center with a copy of your bill of sale. For your nearest JVC authorized service center, please call toll free: (800) 537-5722.

If service is not available locally, box the product carefully, preferably in the original carton, and ship, insured, with a copy of your bill of sale plus a letter of explanation of the problem to the nearest JVC Factory Service Center, the name and location of which will be given to you by the toll-free number.

If you have any questions concerning your JVC Product, please contact our Customer Relations Department.

#### WHAT IS NOT COVERED:

This limited warranty provided by JVC does not cover:

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

There are no express warranties except as listed above.

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

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

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

JVC COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.

1700 Valley Road Wayne, NJ 07470

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY, THIS WARRANTY <u>DOES NOT</u> APPLY. FOR DETAILS OF REFURBISHED PRODUCT WARRANTY, PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.

For customer use:		
Enter below the Model No, which is located either on the rear, bottom or side of the cabinet. Retain this information for future reference.		
Model No. :	Serial No. :	
Purchase data :	Name of dealer :	

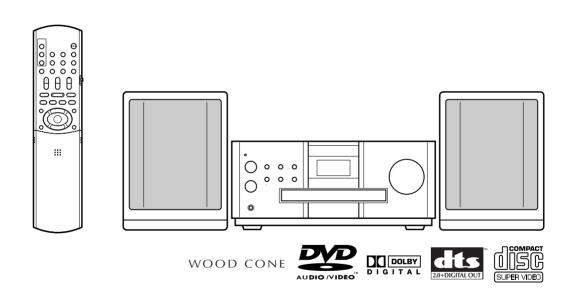




# COMPACT COMPONENT SYSTEM SYSTEME DE COMPOSANTS COMPACT

# EX-A1

**Consists of CA-EXA1 and SP-EXA1 Se compose de CA-EXA1 et SP-EXA1** 



/ INSTRUCTIONS MANUEL D'INSTRUCTIONS

# Warnings, cautions and others / Mises en garde, précautions et indications diverses

#### CAUTION

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

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

#### **ATTENTION**

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

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

#### CAUTION - O/I button!

Disconnect the mains plug to shut the power off completely (the STANDBY lamp goes off).

The O/I button in any position does not disconnect the mains line.

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

#### ATTENTION - Touche O/!!

Déconnectez la fiche d'alimentation secteur pour couper l'alimentation complètement (le témoin STANDBY s'éteint).

La touche O/I, dans n'importe quelle position, ne déconnecte pas le système du secteur.

- Quand le système est en attente, le témoin STANDBY est allumé en rouge.
- Quand le système est sous tension, le témoin STANDBY s'éteint.
   L'alimentation ne peut pas être télécommandée.

#### **CAUTION**

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

#### **ATTENTION**

- Ne bloquez pas les orifices ou les trous de ventilation.
   (Si les orifices ou les trous de ventilation sont bloqués par un journal un tissu, etc., la chaleur peut ne pas être évacuée correctement de l'appareil.)
- Ne placez aucune source de flamme nue, telle qu'une bougie, sur l'appareil.
- Lors de la mise au rebut des piles, veuillez prendre en considération les problèmes de l'environnement et suivre strictement les règles et les lois locales sur la mise au rebut des piles.
- N'exposez pas cet appareil à la pluie, à l'humidité, à un égouttement ou à des éclaboussures et ne placez pas des objets remplis de liquide, tels qu'un vase, sur l'appareil.

# IMPORTANT FOR LASER PRODUCTS / IMPORTANT POUR PRODUITS LASER

- 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.
- 1. PRODUIT LASER CLASSE 1
- 2. **ATTENTION:** N'ouvrez pas le couvercle supérieur. Il n'y a aucune pièce réparable par l'utilisateur à l'intérieur de l'appareil; confiez toute réparation à un personnel qualifié.
- ATTENTION: Risque de radiations laser visible et invisible quand l'appareil est ouvert et que le système de verrouillage ne fonctionne pas ou a été mis hors service. Évitez toute exposition directe au rayon.
- 4. REPRODUCTION DE L'ÉTIQUETTE: ÉTIQUETTE DE PRÉCAUTION PLACÉE À L'INTERIEUR DE L'APPAREIL.

<b>CAUTION</b> : Visible and invisible	ADVARSEL: Synlig og usynlig	VARNING: Synlig och	VARO: Avattaessa ja suojalukitus
laser radiation when open and			
interlock failed or defeated.			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)



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



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



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

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

#### For Canada/pour le Canada

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

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

#### For Canada/pour le Canada

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

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

#### For U.S.A.

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

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

Reorient or relocate the receiving antenna.

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

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

#### Note to CATV system installer:

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

# **Table of contents**

Adjusting playback level (DVD LEVEL) ...... 26 Enjoying better pictures (PROGRESSIVE)...... 26

Introduction  Warnings, cautions and others	2 Using the menu bar
Using the remote control  Putting the batteries in the remote control  Operating the TV using the remote control  Connecting up	Tuning in to a preset station33
Playing discs	12 Auto Standby
To pause playback	Reference
Advanced operations  Playing MP3 and JPEG discs	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.  DVD DVD AUDIO VCD SVCD C D MP3  JPEG  The illustrations and TV screens may be different between the actual case and the description.

# **Special cautions**

# **Notes on handling**

#### Important cautions

#### Installation of the system

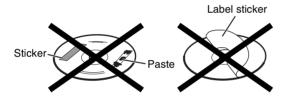
- Select a place which is level, dry and neither too hot nor too cold; between 5°C and 35°C.
- Leave sufficient distance between the system and the TV.
- · Do not use the system in a place subject to vibration.

#### 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, Super Video CDs (SVCDs), VCDs and CDs. Recording of copyrighted material may infringe copyright laws.

#### Note about copy guard system

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

#### ■ Safety precautions

#### Avoid moisture, water and dust

Do not place the system in moist or dusty places.

#### Avoid high temperatures

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

#### When you are away

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

#### Do not block the vents

Blocking the vents may damage the system.

#### Care of the cabinet

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

#### If water gets inside the system

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

#### ■ When condensation or water drops adhere to the lens

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

- · Immediately after roomheating starts
- When the system is installed in a steamy or damp space
- When the system is suddenly moved from a cold place to a warm space

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

#### Supplied accessories

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

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

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

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<sup>•</sup> This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

# Playable disc types

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

DVD VIDEO, DVD AUDIO, VCD, SVCD, CD

This system can also play back the following discs:

- Finalized DVD-R/RW discs recorded in the DVD VIDEO format.
- · CD-R/RW discs recorded in the following formats
- Music CDs (finalized discs)
- VCDs
- SVCDs
- MP3/JPEG discs recorded in ISO 9660 (for details, refer to "About MP3/JPEG discs")

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

Only sounds can be played back from the following discs:

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

#### Discs you can play:

Disc Type	Mark (Logo)	Video Format	Region Code Number*
DVD VIDEO	VIDEO TIM VIDEO	NTSC	1/ALL
DVD AUDIO	AUDIO/VIDEO		_
VCD	COMPACT VIdeo CD	NTSC	_
SVCD	COMPACT VIDEO SUPER VIDEO CD	NTSC	_
CD	COMPACT DIGITAL AUDIO	l	_
CD-R	COMPACT CITCH DIGITAL AUDIO RECOrdable	_	_
CD-RW	COMPACT DIGITAL AUDIO REWritable	_	_

#### \* 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 above.

#### 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.

#### Discs that cannot be played back

 The following discs cannot be played back: DVD-ROM, DVD-RAM, DVD-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.

#### **About MP3/JPEG discs**

Playable MP3/JPEG discs and files

- Discs recorded in the ISO 9660 format are playable (except discs recorded in the "packet write" format (UDF format)).
- Discs recorded in the multi-session format are also playable.
- Files with an extension of ".mp3," ".jpg" or ".jpeg" (extensions with uppercase and lowercase letters mixed are also acceptable) are playable.

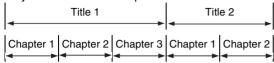
#### Notes on MP3/JPEG discs and files

- A disc may not be played, or reading it may take a long time depending on its recording conditions or properties.
- The time needed for reading varies with the number of groups or tracks (files) recorded on the disc.
- If a character other than single byte English characters is used in the file name of an MP3/JPEG file, the track/ file name will not be displayed correctly.
- The order of tracks/groups displayed on the MP3 Control screen, and the order of files/groups displayed on the JPEG Control screen may be different from that of files/folders displayed on PC's monitor screen.
- In the case of MP3 discs, since groups/tracks are played in alphabetical order, an off-the-shelf MP3 disc may be played in an order different from that indicated on the label attached to the disc.
- Playing an MP3 file including a still image may take a long time. The elapsed time is not displayed until playing starts. If playing starts, the elapsed time may not be displayed correctly.
- This system does not handle the ID3 tag of the MP3 file.
- For an MP3 file, a disc with a sampling frequency of 44.1 kHz and transmission rate of 128 kbps is recommended.
- 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.
- The resolution of 640 x 480 is recommended for JPEG files. If a file has been recorded at a resolution of more than 640 x 480, display may take a long time. An image with a horizontal resolution of more than 2,400 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 (propage 27).



#### VCD/SVCD/CD

VCD, SVCD and CD consist of "tracks".

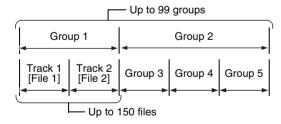
In general, each track has its own track number. (On some discs, each track may also be further divided by indexes.)



#### MP3 [JPEG] discs

On an MP3 [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.

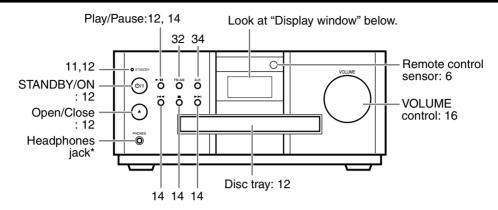
This unit simplifies the hierarchical construction of a disc and manages folders by "groups"



This unit can recognize up to 150 tracks [files] per group and up to 99 groups per disc (up to 14,850 files in total). 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.

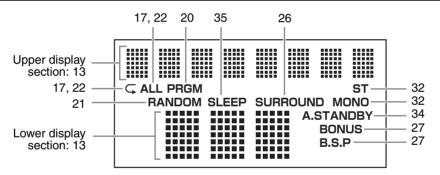
 If there is any type of files other than MP3 [JPEG] files in a folder, those files are also counted in the total file number. The numbers represent the page numbers.

# **Front panel**

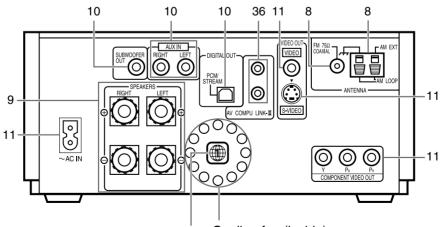


\* Connect a pair of headphones (commercially available) with a stereo mini plug. If the headphones are connected, the speakers and subwoofer will not produce any sound.

# **Display window**



# Rear panel



Region Code Number: 3 Cooling fan (inside)

The fan rotates and stops automatically.

This discharges heat generated inside the unit.

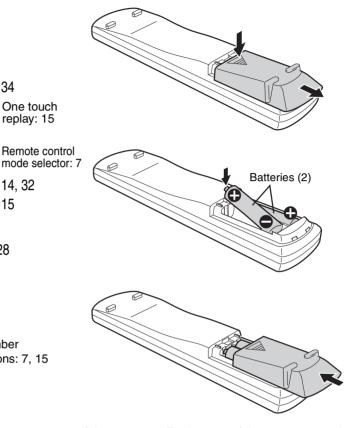
Do not cover up these holes.

# Using the remote control

The numbers represent the page numbers.

# 32 12 35 -12 16 -7 13 .7 15, 17 16 7 16 14, 32 -12 15 14 19 14 -19 19,2819, 28 28 21 24 29 24 24 13 26 Number 27 buttons: 7, 15 25 22 20 26 32 26 16 33, 34 10 16

# Putting the batteries in the remote control



If the range or effectiveness of the remote control decreases, replace the batteries. Use two R6P (SUM-3)/AA(15F) type dry-cell batteries.

#### **CAUTION**

One touch replay: 15

Remote control

14, 32

- 15

- · 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.

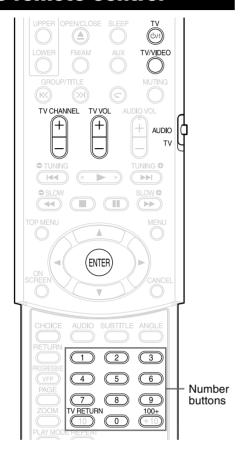
#### Remote control operation

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

Slide the remote control mode selector to the TV side.



2 Keep pressing down O/ITV.

#### NOTE

Keep pressing down ป่า TV until Step 4 is complete.

**3** Press ENTER and release.

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

#### **Examples:**

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

# 5 Release ७/١TV.

#### For TV operation

Operate the remote control by pointing it towards the TV.

TV	Turn ON/OFF the power.	
TV CHANNEL +	Change channels.	
TV VOL +	Adjust volume.	
1 ~ 9 / 0 / + 10	AUDIO TV Select channels.	
TV RETURN	Alternates between the previously selected channel and the current channel.	
TV/VIDEO	Switch TV and video input.	

<sup>\*1</sup> Make sure to slide the remote control mode selector to the TV side in advance.

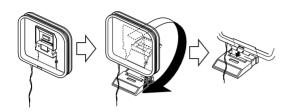
#### NOTE

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

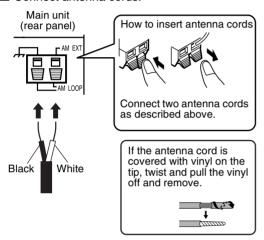
# **Connecting antennas**

#### **Connecting AM loop antenna (supplied)**

1 Set up the AM loop antenna.



2 Connect antenna cords.

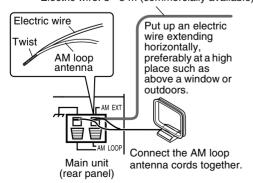


**3** Turn the AM loop antenna to the direction of the best radio reception.

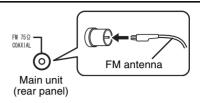
Locate the AM loop antenna as far away from the main unit as possible.

- 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

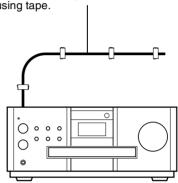
Electric wire: 3 - 5 m (commercially available)



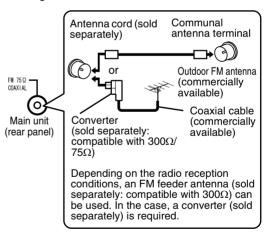
#### **Connecting FM antenna (supplied)**



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



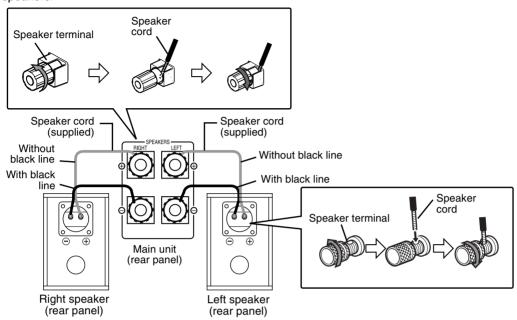
When good radio reception cannot be obtained with the supplied antenna or when using a communal antenna



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

# **Connecting speakers**

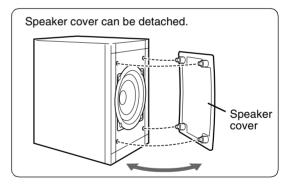
There is no difference between the left and right speakers.



#### **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.

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



#### NOTE

- Impedance of speaker that can be connected to the main unit is within a range of  $4\Omega$  to  $16\Omega$ .
- 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.

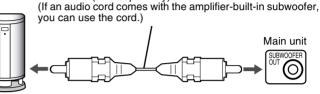
## **Connecting other devices**

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

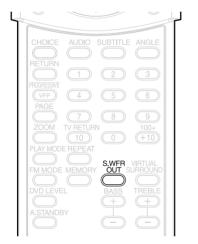
#### Connecting subwoofer

With an amplifier-built in subwoofer (sold separately), you can enjoy a more dynamic bass sound. Refer to the manual of the subwoofer for details.

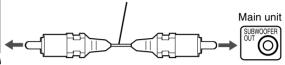
> Amplifier-built-in subwoofer (sold separately)



Audio cord (sold separately)



you can use the cord.)

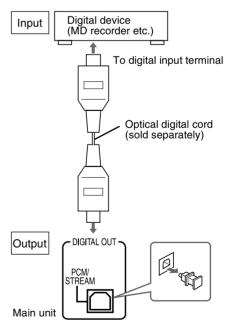


When you want to hear sound from the subwoofer, press S.WFR OUT on the remote control to display "SUB WFR ON" (Sub Woofer ON) on the display window on the main unit. Each time you press the button, the display toggles between "ON" and "OFF".

#### **NOTE**

When "SUB WFR ON" 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.

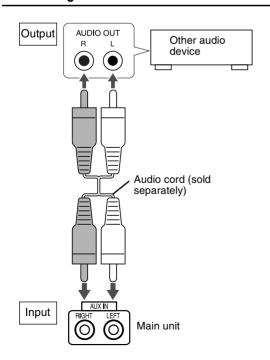
### Connecting with a digital device



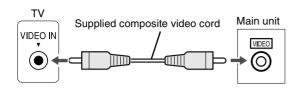
#### **CAUTION**

- · 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" (propage 30) will be invalid regarding sound from the digital audio output of the main unit.

## Connecting with other audio device



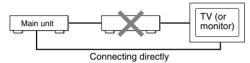
# **Connecting with TV**



#### **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.

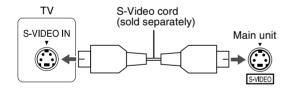


Also, when connecting the main unit to a TV with a VCR built in, there may be picture distortion while playing.

# When a clearer picture is desired

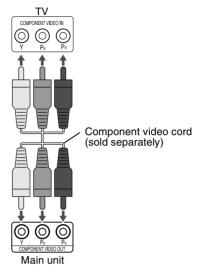
You can enjoy pictures of better quality using the following cord instead of the supplied video cord.

#### Connecting by using the S-Video cord



# Connecting by using the component video cord

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



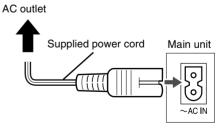
#### **CAUTION**

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

#### NOTE

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

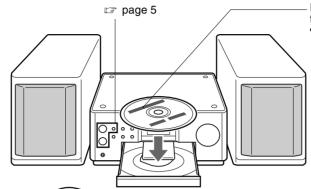
# **Connecting the power cord**



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

# **Playback**

DVD DVD VCD SVCD C D (Refer to page 16 for playing MP3 and JPEG.)



Place a disc with the label side facing up.

 Place an 8 cm disc in to the hollow part in the center.

Press O/I AUDIO.

- The power will be turned on and the STANDBY lamp will go off.
- Press O/I AUDIO again to turn off the power.

2 Press **≜**OPEN/CLOSE to open the disc tray to load a disc.

3 Press ►(play).

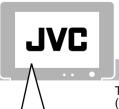
The disc tray will close and playback will start.

- The power will be turned on when any of  $\overset{\blacktriangleright / 1}{\mathbf{O}}$  ,
  - $\circ$  or  $\bullet$  on the main unit and  $\circ$ ,
  - pressed while the power is off.

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

#### NOTE

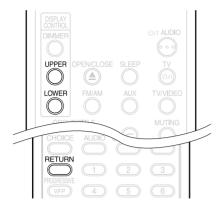
- · A menu screen may be displayed after starting playback of a DVD. In this case, select a desired item to playback by using the following buttons on the remote control.
  - Select a desired item using 👝 🥣 ( press (ENTER)
  - Select a desired item using the number buttons.
- · Depending on the disc, actual operation may be different from the description.



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

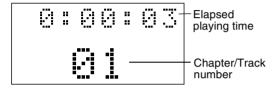
The following messages appear depending on the status of the system. (When FM/AM or AUX is selected as a source, the messages do not appear.)

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 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.



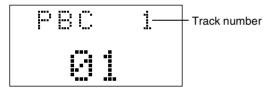
#### Display window during disc playback

Example: When a DVD VIDEO or DVD AUDIO is played



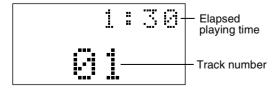
If "BONUS" or "B.S.P." is displayed during a DVD AUDIO playback, refer to page 27.

Example: When a SVCD or VCD is played

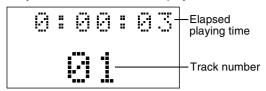


- PBC (Play Back Control): A signal recorded in a VCD (version 2.0) for controlling playback. It is possible to enjoy interactive software or software with a search function using a menu screen recorded in a PBC compatible VCD. To play a disc with the PBC function OFF, carry out the following operations.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

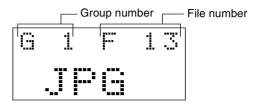
Example: When a CD is played



Example: When an MP3 disc is played



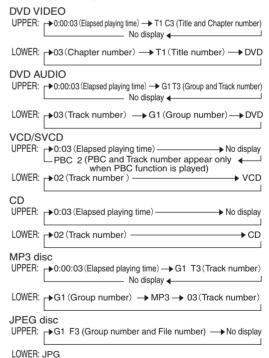
Example: When a JPEG disc is played



# To switch the display

Press **UPPER** or **LOWER**. Each time you press the button, the display will be alternated.

#### **Display examples**



#### NOTE

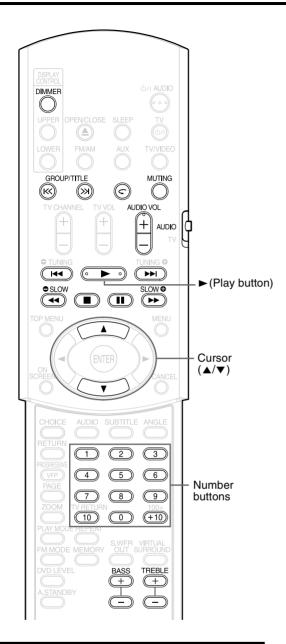
Abbreviations

G: Group

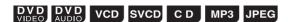
T: Title (DVD VIDEO)
Track (DVD AUDIO and MP3)

C: Chapter

F: File



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

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

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

### To stop playback

DVD DVD VCD SVCD C D MP3 JPEG

Press ■ during playback.

# To pause playback

DVD DVD VCD SVCD C D MP3 JPEG

#### Press II during playback.

To resume normal playback, press ►(play).

- Press II to pause during JPEG disc slide-show.
   Press ► (play) to start playback from the next file.
- It is not possible to pause by pressing ►/II on the main unit during JPEG disc slide-show.

# To advance picture frame-by-frame

DVD SVCD VCD

## Press II during pause.

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

# Fast reverse/Fast forward search

DVD DVD AUDIO VCD SVCD C D

There are two methods.

Each time you press the button, the speed increases ( $\times$ 2,  $\times$ 5,  $\times$ 10,  $\times$ 20,  $\times$ 60). To restore the normal speed, press  $\blacktriangleright$ (play).

Hold down |
 or ►► |.

Fast reverse/Fast forward search can be carried out only while the button is pressed ( $\times 2 \rightarrow \times 5$ ).

#### NOTE

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

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

#### DVD VIDEO

#### 

#### NOTE

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

# **Slow Motion Playback**

## DVD VCD SVCD

#### 

- Each time you press the button, the speed increases.
- Press II to pause playback, and press ►(play) to resume normal playback.

#### 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\*.

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

#### 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

**Examples:** 

5: 5

15:

 $(+10) \rightarrow (5)$ 

20: (+10) → (10)

25: (+10) → (+10) → (5)



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

: Play

Ш

: 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 discs (continued)

# To change the brightness of the display window (DIMMER)

#### Press DIMMER repeatedly.

 The modified brightness will be stored even after the power is turned off.

The items below can be carried out for all sources.

# **Adjusting the volume**

Press AUDIO VOL +/-.

#### NOTE

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

# **Adjusting sound quality**

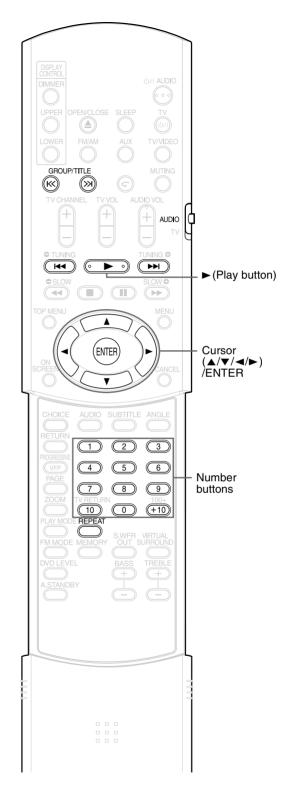
Bass: Press BASS +/-.
Treble: Press TREBLE +/-.

# 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 tuned off once and turned on again, the sound will be restored.

# Playing MP3 and JPEG discs



#### NOTE

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



# **Playback**

#### MP3 JPEG

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

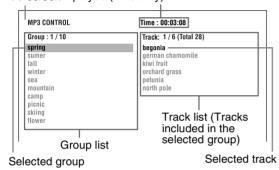
For a JPEG disc, read "track" as "file".

#### NOTE

When playing a disc containing both MP3 and JPEG files, set one of them to be played ( page 29).

## l Load a disc.

Elapsed time of the track currently being TV screen played (MP3 only).



- 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.
- **5** Press ►(play) or ENTER.

#### NOTE

- GROUP/TITLE K<, ≫ can also be used in Step 2.
- The number buttons can also be used in Step 4. In this case, Steps 3 and 5 are 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 3 is not needed.

# Repeat playback

#### MP3 JPEG

# Press REPEAT while the disc is stopped.

Each time you press the button, the Repeat type will be alternated.

Repeat types	Display on the TV screen	Display on the display window on the main unit
Repeats the current track (only for MP3).	REPEAT TRACK	Ç
Repeats the current group.	REPEAT GROUP	Ç`ÀLL(<*
Repeats the entire disc.	REPEAT ALL	Ç ALL
Cancels repeat.	No display	No display
Repeats the current track during a Program or Random Playback (only for MP3).	REPEAT STEP	U+
Repeats all programmed tracks or the all tracks for Random play (only for MP3).	REPEAT ALL	Ç ALL

<sup>\* &</sup>gt; represents blinking

# **2** Press ►(play).

#### NOTE

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

## Slide-Show Playback JPEG

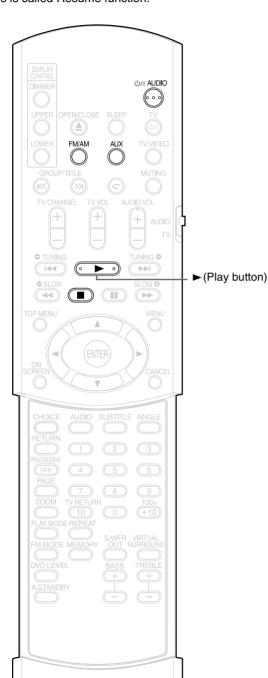
- In Step 5, for a JPEG disc, when ► (play) is pressed, files will be continuously played from the selected file (Slide-Show Playback), and when **ENTER** is pressed, only a selected file will be played.
- Display time for a file in Slide-Show Playback is about 3 seconds.
- · When all files are played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

# Resume Playback

## DVD DVD VCD SVCD

When playback is stopped in the middle, playback can be started from the stopped scene.

This is called Resume function.



#### How to suspend playback

Perform any of the following operations during playback.

Press ■ once.\*

Press O/I AUDIO to turn off the power.

Change the source to FM/AM or AUX.\*

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

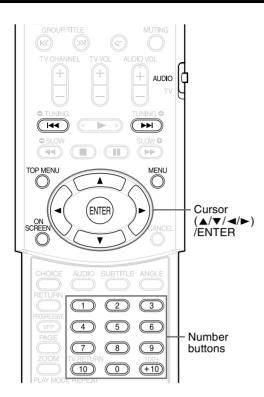


# To start playback from the stored position

Press ►(play).

#### 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 at this time, "RESUME OFF" will be displayed and 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 from the menu

## DVD DVD VCD SVCD

Press MENU or TOP MENU while the disc is stopped or during playback\*1.

The disc menu screen will be displayed.

- 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" (IF page 15).
  - When the menu screen has a couple of pages, press I◄◄ or ►►I to change the page (only for a VCD and SVCD).

## **3** Press ENTER.

#### NOTE

- \*1 For a VCD and SVCD, this operation can be carried out only when the PBC function is off.
- · This operation cannot be carried out for a disc

without a menu screen.

Playback may start for some discs without pressing ENTER.

# Designate the time (Time search)

# DVD DVD VCD CD

Press ON SCREEN twice during playback<sup>2</sup>.

The menu bar will be displayed (pp page 28).

- 2 Press cursor ◄/► to select ④→.
- 3 Press ENTER.
- 4 Input the time<sup>\*3</sup> using the number buttons (1-9, 0).
  - Input "hours", "minutes" and "seconds" for a DVD VIDEO and DVD AUDIO, and input "minutes" and "seconds" for a CD and VCD. "minutes" and "seconds" can be omitted.

Example: 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.

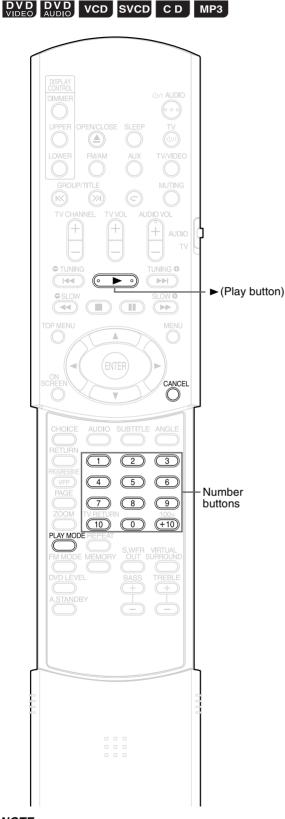
# **5** Press ENTER.

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 CD, this operation can always be carried out, while, for a VCD, 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 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



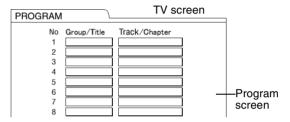
# Play the disc in the desired order (Program Playback)

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

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

"PRGM" is an abbreviation for PROGRAM.

Example: For DVD VIDEO



# 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: 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 number of chapters or tracks input is greater than 99, "FULL" will be displayed.
- In the case of a CD, SVCD or VCD, when the total playback time reaches 99 minutes 59 seconds, "--:--" will be displayed on the display window (It is possible to continue programming).

NOTE

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



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

- (1) Select a title/group using the number buttons.
  - Display example of the upper display window: T2 C--
- (2) Designate a chapter/track number using the number buttons.
  - Display example of the upper display window: T2 C3
  - Refer to "How to use the number buttons" (propage 15).
  - The program number will be displayed on the lower display window (Example: "P2").
- (3) Repeat the above operations (1) and (2) to complete the program. Then, advance to Step 3.

# **3** Press ►(play).

- To resume normal playback, press PLAY MODE repeatedly to display "NORMAL" 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.
  - Hold down CANCEL until "CLEAR!" appears on the display window with the program preference screen displayed (if CANCEL is pressed and released quickly, programs will be erased one by one).
  - · Open the disc tray
  - · Turn off the power

# Playing the disc in a random order (Random Playback)

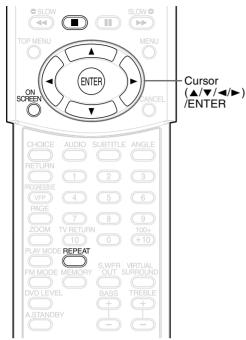
- Press PLAY MODE repeatedly to display "RANDOM" on the display window on the main unit while the disc is stopped.
  - "RANDOM" will also be displayed on the TV screen.

# **2** Press ►(play).

- The same chapter or track will not be played twice.
- To resume normal playback, press PLAY MODE repeatedly to display "NORMAL" on the display window on the main unit while the disc is stopped.
- Random Playback will also be cancelled 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)

DVD DVD VCD SVCD CD

# Press REPEAT during playback.

Each time you press the button, the Repeat type will be alternated.

#### **Example:**

TV screen Display window on the main unit

#### For DVD VIDEO

Repeat types	Display on the TV screen	Display on the main unit
Repeats the current chapter	CHAP.	U
Repeats the current title	TITLE	C)ALL(<*
Cancels repeat	OFF	No display

#### For DVD AUDIO

Repeat types	Display on the TV screen	Display on the main unit
Repeats the current track	TRACK	U
Repeats the current group	GROUP	C)ALL(<*
Cancels repeat	(C)OFF	No display

<sup>\* &</sup>gt; represents blinking

#### For CD/VCD/SVCD

Repeat types	Display on the TV screen	Display on the main unit
Repeats the current track	TRACK	U+
Repeats all tracks	ALL	Ģ ALL
Cancels repeat	OFF	No display

#### NOTE

- For a DVD AUDIO and CD, this operation can always be carried out, while, for a VCD and SVCD, the operation can be carried out when the disc is stopped or during playback without the PBC function.
- It is possible to set Repeat on the menu bar. For how to operate, refer to "Playing the designated part repeatedly (A-B Repeat Playback)" (IF page 23).
- The abbreviations displayed on the main unit are as follows.

TRK: Track
CHP: Chapter
TI.: Title
GR.: Group

 For a DVD VIDEO and DVD AUDIO, if the source is switched to FM/AM or AUX, the Repeat mode will be cancelled.

# Repeat Playback during Program or Random Playback

Repeat types	Display on the TV screen	Display on the main unit
Repeats the current chapter or track	STEP or REPEAT STEP	U+
Repeats all programmed tracks or all the tracks in Random Playback	ALL or REPEAT ALL	<b>Ģ</b> ALL
Cancels repeat	OFF or No display	No display

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

## DVD DVD VCD CD

Press ON SCREEN twice during playback.

The menu bar (page 28) will be displayed.

- Press cursor </ >
  /> to select
- **3** Press ENTER.
- 4 Press cursor ▲/▼to display

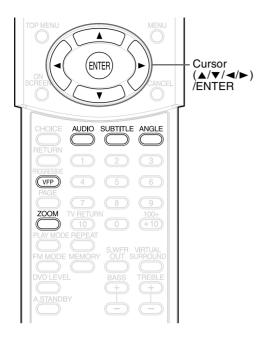
A−B •

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

- 5 Press ENTER at the start point of the part to be repeated (designating A point).
  - The icon on the menu bar will be 🖒 🕒 .
- 6 Press ENTER at the end point of the part to be repeated (designating B point).
  - The icon on the menu bar will be CA-B.
     will appear blinking on the display window on the main unit and the part between A and B points will be played repeatedly.
  - A-B Repeat Playback will be cancelled 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.



## **Selecting the subtitles**

DVD SVCD DVD AUDIO

(only for moving image)

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

Example:



- Each time you press the button, the subtitle will be alternated between ON/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.

#### NOTE

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

# Selecting the audio language

DVD DVD VCD SVCD

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

**Example:** 



- 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.

#### NOTE

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

# Selecting a view angle

DVD DVD VIDEO AUDIO

(only for moving image)

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

Example:



- 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.

#### NOTE

It is possible to operate by using the menu bar (\$\mathscr{B}\$ page 28).

# Enlarging the picture (ZOOM)



(only for moving image)

## Press ZOOM during playback or while paused.

 Each time you press the button, the picture magnification will be changed (×1.5 only for a VCD and SVCD).

# 2 Select the portion you want to see by using cursor ▲/▼/◄/►.

- This operation cannot be carried out when the magnification is ×1.
- To resume normal playback, select  $\times 1$  in Step 1.

# Adjusting the picture quality (VFP)

DVD DVD VCD SVCD JPEG

## Press VFP during playback or while paused.

"VFP SET" will appear on the display window on the main unit and the current setting will be displayed on the TV screen.



- Gamma: Controls brightness of neutral tints while maintaining brightness of dark and bright portions.
- Sharpness: Controls screen sharpness.

# 2 Press cursor /▶ to select VFP mode.

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

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

4 Press ENTER.

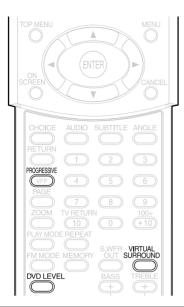


- 5 Press cursor ▲/▼ to change the value.
- **6** Press ENTER.

  To adjust other items, go back to Step 3.
- **7** Press VFP.

#### 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 (VIRTUAL SURROUND)

### DVD DVD

#### NOTE

Virtual Surround can be set only for multi-channel sound (AC3, LPCM, PPCM and DTS). Virtual Surround cannot be set for 2 channel audio such as PCM stereo or Dolby Surround.

# Press VIRTUAL SURROUND during playback.

Example:

TV screen

VIRTUAL SURROUND OFF

- Each time you press the button, the Surround mode will be alternated between ON/OFF.
- When ON, "SURROUND" appears on the display window.
- When switching the Surround mode, the sound will be intermittent.

#### NOTE

- Virtual Surround is effective for the speakers and headphones.
- "V.SUR." displayed on the display window is an abbreviation of "Virtual Surround".

# Adjusting playback level (DVD LEVEL)

#### DVD DVD VIDEO AUDIO

The audio of a DVD VIDEO and DVD AUDIO 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 "NOR" (Normal), "MID" (Middle) and "HIG" (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.
- This operation can be carried out while the disc is stopped or paused.

# **Enjoying better pictures** (PROGRESSIVE)

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 (propage 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.

#### NOTE

Progressive mode:

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

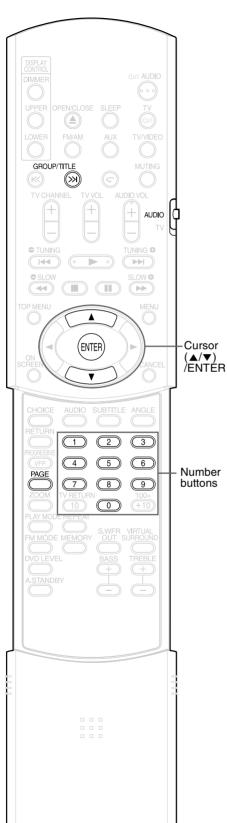
Interlace mode:

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

### Display "PROGRESS" by holding down PROGRESSIVE during playback or while the disc is stopped, or when there is no disc loaded.

- Each time you hold down the button, the mode will be alternated between the Progressive mode and the Interlace mode.
- The display window displays "PROGRESS" when in the Progressive mode, and "INTER." when in the Interlace mode.





#### NOTE

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



## Playing the Bonus Group

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

#### NOTE

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

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

> "KEY\_\_\_" appears on the TV screen, and on the display window on the main unit.

**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.

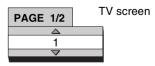
#### NOTE

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

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 ▲/▼.

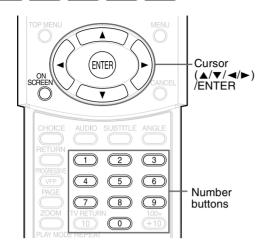
**Example:** 



**2** Wait for a few seconds or press ENTER.

# 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.

## Press ON SCREEN twice.

"ON SCREEN" will appear on the display window on the main unit. 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 blue.
- To delete the menu bar, press ON SCREEN.

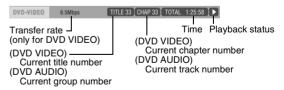
#### **Functions list**

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

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

## Information displayed on the status bar

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



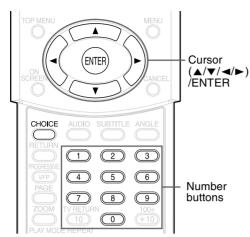
VCD/SVCD/CD (the example below is for a CD)



#### NOTE

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

# DVD DVD VCD SVCD C D MP3 JPEG



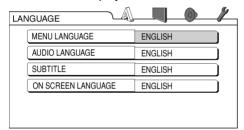
The initial settings of the system can be changed according to the environment the system is used

#### NOTE

- Set the remote control mode selector to AUDIO O **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 CHOICE while the disc is stopped or no disc is loaded ("NO DISC" is displayed).
  - "SETTING" will appear on the display window on the main unit and 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 NORMAL: 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). 16:9 AUTO: Select this when your TV is an ordinary wide TV. 4:3 LB (Letter Box): Select this when the aspect ratio of your TV is conventional 4:3. While viewing a wide screen picture, the black bars appear on the top and bottom of the screen. 4: 3 PS (Pan Scan): Select this when the aspect ratio of your TV is conventional 4:3. While viewing a wide screen picture, the left and right edges of the picture will not be shown on the screen. (If the disc is not compatible with Pan Scan, the picture will be displayed at the Letter Box ratio.)

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).

#### MP3/JPEG

If there are both MP3 and JPEG files on a disc, you can select which files to play. When the preference has been changed, open/close the tray and turn on the power again. (A disc with only one of MP3 file or JPEG file recorded can be played regardless of this preference.)



# **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 Virtual Surround is ON, 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.



# **OTHERS**

Items	Contents ( : initial setting)  Select ON /OFF. ( page 18)  Select ON /OFF. ( page 15)		
RESUME			
ON SCREEN GUIDE			
AV COMPULINK	(☞ page 36)		
MODE	DVD1: Connect to the video-3 input on the TV set or the DVD input on the AV amplifier.		
	DVD2: Connect to the video-1 input of the TV set.		
	DVD3: Connect to the video-2 input of the TV set.		
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 diag	DIGITAL AUDIO OUTPUT preference		
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	48 kHz, 16 bits stereo linear PCM		
44.1/88.2/176.4k Hz, 16/20/24 bits linear PCM DVD AUDIO	44.1 kHz, 16 bits stereo linear PCM  DTS bit stream  48 kHz, 16 bits stereo linear PCM		
DTS DVD VIDEO			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	DTS bit stream 44.1 kHz, 16 bits linear PCM	
MP3 disc	No output		

• For a DVD VIDEO without content protection set, there is a 20 bit or 24 bit output at the digital audio output terminal.

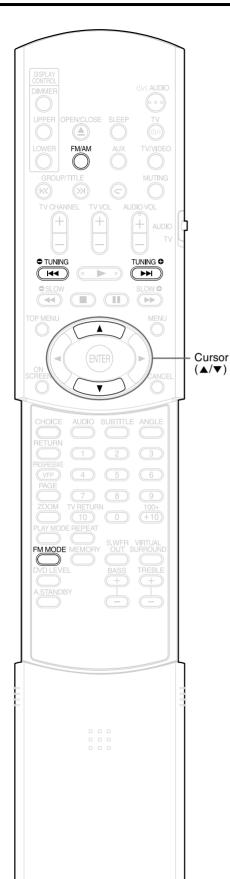
AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
Al	Anguilla
	Albania
AL	
AM	Armenia
AN	Netherlands Antilles
AO	Angola
AQ	Antarctica
AR	Argentina
AS	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AZ	Azerbaijan
ВА	Bosnia and
D/ (	Herzegovina
BB	Barbados
BD	Bangladesh
BE	Belgium
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
BY	Belarus
BZ	Belize
CA	Canada
CC	Cocos (Keeling)
	Islands
CF	Central African
	Republic
CG	Congo
СН	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	Djibouti
DK	Denmark
DM	Dominica Dominican Dominica
DO	Dominican Republic
DZ	Algeria
EC	Ecuador
EE	Estonia
EG	Egypt
EH	Western Sahara
ER	Eritrea

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

	1	
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	
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
SD SE	Sudan 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
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)
VG	Virgin Islands (U.S.)
VN	Virgin Islands (0.5.) Viet Nam
VIN	
WF	Vanuatu Wallis and Futuna
VVF	
WS	Islands
	Comoo
	Samoa
YE	Yemen
YE YT	Yemen Mayotte
YE YT YU	Yemen Mayotte Yugoslavia
YE YT YU ZA	Yemen Mayotte Yugoslavia South Africa
YE YT YU ZA ZM	Yemen Mayotte Yugoslavia South Africa Zambia
YE YT YU ZA	Yemen Mayotte Yugoslavia South Africa

# Listening to a radio broadcast



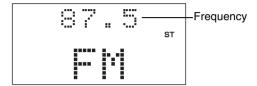
You can tune in to FM or AM.

## **Selecting a station**

### Press FM/AM.

Each time you press the button, the band will be alternated between FM and AM.

#### Example:



# 2 Press TUNING o or TUNING o to select the station (frequency).

#### **Automatic tuning:**

Hold down **TUNING ⊕** or **TUNING ⊕** until the system starts searching, and then release the button.

When a station of sufficient signal strength is tuned in to, the system stops searching automatically.

To stop searching manually, press **TUNING ⊕** or **TUNING ⊕**.

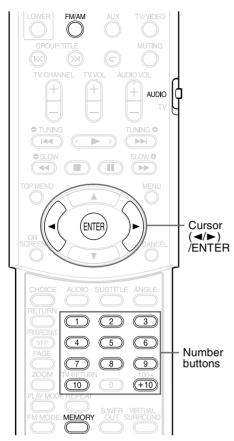
#### Manual tuning:

Each time you press **TUNING ⊕** or **TUNING ⊕**, the frequency changes.

- When an FM stereo program is received, the "ST" (Stereo) indicator lights.
- You can also select the station with cursor ▲/▼.

#### 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 ("MONO" lights). 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.

Figures (memory number) blink on the display window for about 5 seconds.

- 3 Select the number you want to store by pressing cursor 
  ✓/► while the memory number is blinking.
  - You can also select the number by using the number buttons.
  - Refer to "How to use the number buttons" ( page 15).
- 4 Press MEMORY or ENTER while the selected number is blinking.

"SET" will be displayed and the selected station will be stored.

#### NOTE

Storing a new station to a used number erases the previously stored station.

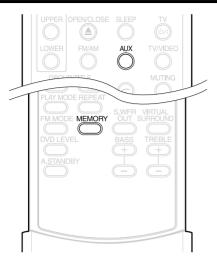
# **Tuning in to a preset station**

- Press FM/AM repeatedly 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 cursor </▶.

# Listening to the sound of other audio device



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

Press AUX.

The source changes to AUX.

- Play the other audio device. For details, refer to the manual of the device connected.
- 3 Adjust the volume and the sound quality of the system (g page 16).

## Adjust the sound input level of the audio device

You can adjust the sound input level of another audio device connected to the AUX jack.

Press AUX.

The source changes to AUX.

**2** Hold down MEMORY until an input level is displayed.

> Each time you hold down the button, it switches as follows:

LEVEL 1: Select this normally.



LEVEL 2: Select this when the input level from the other device is too high and the sound is distorted.

The initial setting is "LEVEL1".

# **Auto Standby**

# DVD DVD VCD SVCD C D MP3 JPEG



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" is displayed).

"A.S.ON" (Auto Standby On) and "A.STANDBY" will be lit on the display window on the main unit.

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

This means that the power will be turned off automatically if there is no operation for 3 minutes. And, 20 seconds before the power is turned off, "POWER OFF" will appear blinking.

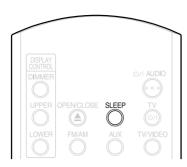
### Releasing Auto Standby

Press A.STANDBY.

"A.S.OFF" (Auto Standby Off) will appear and "A.STANDBY" will be turned off on the display window on the main unit.

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

# **Sleep Timer**

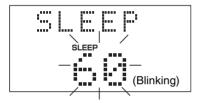


When the time you specify elapses, the system will be turned off by itself.

### Press SLEEP.

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

**Example:** When Sleep Timer is set to 60 minutes



Sleep Timer will be automatically set in a few seconds, and the indication will disappear.

#### NOTE

When Sleep Timer is set, the display window darkens automatically.

## 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 "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

Turn off the power. And while holding down ■(Stop) on the main unit, press ▲(Open/Close). "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.

# **Using AV COMPU LINK**

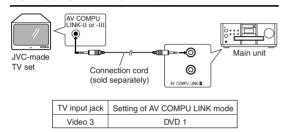
When the TV set or device to be connected is a JVC product equipped with the AV COMPU LINK-II or -III jack, connecting them to the AV COMPU LINK jack on the system will allow you to control the other devices by operating one device.

## **Connection and setting**

#### NOTE

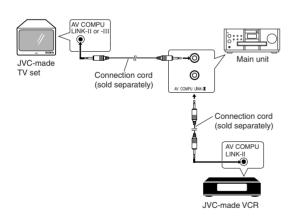
- Refer to "Others" (
   page 30) to set the AV
   COMPU LINK mode.
- Also carefully read manuals of devices to be connected.

#### Connection with a TV set



 Connect to the Video 3 (DVD) input jack on your TV set. If Video 3 is for DV/Movie input, read the following descriptions:

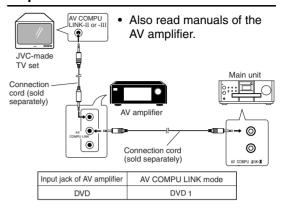
### Connection with a TV set and a VCR



TV input jack	AV COMPU LINK mode	Remote-control code of VCR
Video 1	DVD 2	В
Video 2	DVD 3	A

 When using with initial settings, connect to Video 3 (if not set to DV/Movie input). Set the remotecontrol code to "A".

# Connection with a TV set and an AV amplifier



#### NOTE

- Connecting DVD sound output to a sound input jack for any device other than a DVD disables proper operation.
- When connecting component video output to a TV set, change setting of the AV COMPU LINK mode in this system to "DVD 1". Do not connect to the Svideo jack on the AV amplifier.

## **Operations**

- 1 Turn on the main power of the TV set.
- 2 Insert a disc or videotape into the source device (the system or a VCR).
- 3 Press the play button on the source device.
  - · The TV set will be turned on.
  - TV input will be switched to external input (Video 1, 2 or 3) of the source device.
  - The AV amplifier will be turned on.
  - The source of the AV amplifier will be switched to the device on which the play button has been pressed.

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)
  - "PLAYABLE Err" is displayed on the display window
    - It is not a disc that can be played on this system.
    - $\rightarrow$  Check the disc type. ( $\square$  page 3)
  - Parental Lock is set. (F page 30)

### **About images**

- No picture appears.
  - The video cord is not connected correctly.
     → IF page 11
  - Both of the component video jack and S-video 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 "PROGRESS".
    - $\rightarrow$  Set the scan mode to "INTER.". ( $\square$  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. ( $\square$  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.
  - $\rightarrow \square$  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 "NOR".
    - → Set to other than "NOR". (
      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.
  - "SUB WFR" is turned off.
    - $\rightarrow$  Press **S.WFR OUT** to turn on. ( $\square$  page 10)

#### **About radio**

- The sound is noisy while receiving./Receiving is disabled.
  - The antenna is not connected correctly.
    - → Connect the antenna correctly.
       (LF 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.
  - $\rightarrow$  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.
  - $\rightarrow \square$  page 35

# "TRAY Err" is displayed on the display window.

The tray is not open fully due to an obstacle.
 → Close the tray and remove the obstacle.

#### "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 AM	Afrikaans Ameharic	MN MO	Mongolian Moldavian
AR	Arabic	MR	Marathi
AS	Assamese	MS	Malay (MAY)
AY	Aymara	MT	Maltese
AZ	Azerbaijani	MY	Burmese
BA	Bashkir	NA	Nauru
BE	Byelorussian	NE	Nepali
BG	Bulgarian	NL	Dutch
BH	Bihari	NO	Norwegian
BI	Bislama	OC	Occitan
BN	Bengali, Bangla	OM	(Afan) Oromo
ВО	Tibetan	OR	Oriya
BR	Breton	PA	Panjabi
CA	Catalan	PL PS	Polish Bushts
CS	Corsican Czech	PT	Pashto, Pushto 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 GD	Irish	SL SM	Slovenian
GL	Scots Gaelic Galician	SN	Samoan Shona
GN	Galician	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
ΙE	Interlingue	TA	Tamil
IK	Inupiak	TE	Telugu
IN	Indonesian	TG	Tajik
IS IW	Icelandic	TH TI	Thai
JI	Hebrew Yiddish	TK	Tigrinya 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 XH	Wolof
LT LV	Lithuanian Latvian, Lettish	YO	Xhosa Yoruba
MG	Malagasy	ZU	Zulu
MI	Maori	20	Luiu
		l	

General

Power source: AC 120 V  $\sim$ , 60 Hz Power consumption: 24 W (in operation)

0.8 W (on standby)

Weight: 3.0 kg

External dimensions

 $(W \times H \times D)$ : 232 mm  $\times$  100 mm  $\times$  269 mm

**DVD** player

Playable discs: DVD VIDEO, DVD AUDIO, VCD,

Super VCD, CD, CD-R/RW (CD, VCD, MP3, JPEG format), DVD-R/

RW (video format)

Video output

Color system: NTSC Horizontal resolution: 500 lines

Composite  $\times 1$ : 1.0 V (p-p)/75  $\Omega$ ,

synchronization negative

S-video  $\times$ 1: Y output: 1.0 V (p-p)/75  $\Omega$ , synchronization negative

C output: 0.286 V (p-p)/75 Ω

Component  $\times 1$ : Y output: 1.0 V (p-p)/75  $\Omega$ 

 $P_B/P_R$  output: 0.7 V (p-p)/75  $\Omega$ 

**Audio output** 

Analog sound output: Speakers ×2

Output power: 30 W per channel,

min. RMS, at  $4 \Omega$  at 1 kHz with no more than 10% total harmonic distortion

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

Digital sound output:

Optical X1: -21 dBm to -15 dBm

Other output

AV COMPU LINK ×2 (ø3.5)

**Audio input** 

Sound input: AUX  $\times$  1 Level 1: 250 mV/50 kΩ Level 2: 500 mV/50 kΩ

Tuner

FM tuner:

Receiving frequency: 87.5 MHz to 108.0 MHz Antenna: 75  $\Omega$ - unbalanced type

AM tuner:

Receiving frequency: 530 kHz to 1710 kHz
Antenna: External antenna jack (loop

antenna)

Speaker

Type: 1-way bass-reflex type
Magnetically shielded type

Speaker: 8 cm cone X1

Power handling capacity: 30 W Impedance: 4  $\Omega$  Sound pressure level: 81 dB/W·m

Dimension (W X H X D): 120 mm X 161 mm X 239 mm

Weight (1 unit): 1.6 kg

Designs and Specifications are subject to change without notice.

