English

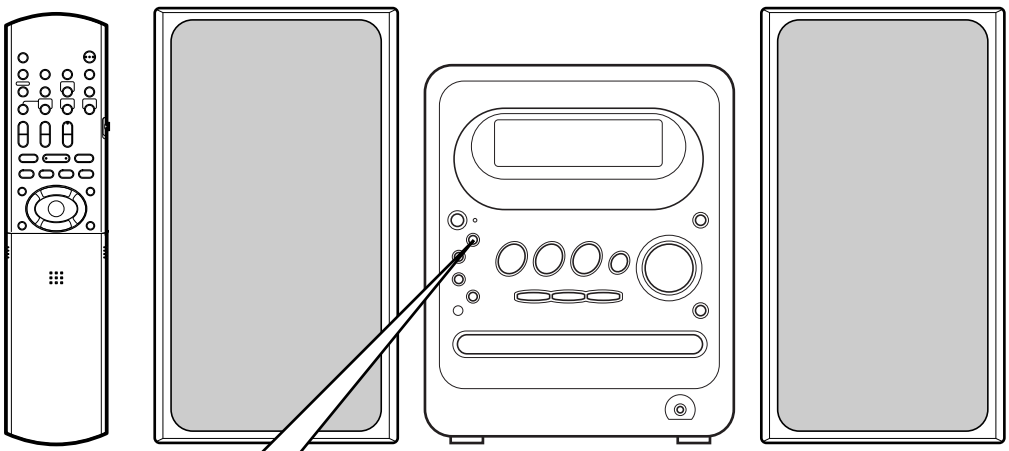
中文

JVC

MICRO COMPONENT DVD SYSTEM
微型 DVD 组合音响

UX-QD90S

Consists of CA-UXQD90S and SP-UXQD90S
由 CA-UXQD90S 和 SP-UXQD90S 组成



For turning off the demonstration display, refer to page 15.
关闭演示显示的有关详情，请参阅第 **15** 页。

DVD AUDIO/VIDEO™ DOLBY DIGITAL dts 2.0+DIGITAL OUT™ COMPACT disc SUPER VIDEO

MP3 PLAYBACK AV COMPU LINK Digital Direct Progressive Scan 3D-PHONIC

INSTRUCTIONS
使用说明书

LVT1368-001A
[UN,US]

Warnings, Cautions and Others / 警告，注意及其他须知事项

CAUTION

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

注意

为了减少触电、火灾等危险：
1. 请勿擅自卸下螺丝钉、盖子或机壳。
2. 请勿让本机受雨淋或置于潮湿环境中。

CAUTION — ⏻/I button!

Disconnect the mains plug to shut the power off completely (the STANDBY lamp goes off).
The ⏻/I button in any position does not disconnect the mains line.
- When the system is on standby, the STANDBY lamp lights red.
- When the system is turned on, the STANDBY lamp lights green.

The power can be remote controlled.

注意－ ⏻/I 开关！

想要完全关闭电源（让 STANDBY 灯熄灭），须将电源插头从插座上拔下。
无论 ⏻/I 键处于何种位置，主电路仍旧没有关闭。
- 当系统处于待机状态时， STANDBY 灯点发红光。
- 当系统处于开启状态时， STANDBY 灯点发绿光。

电源开关可用遥控器进行控制。

CAUTION

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

注意

- 切勿堵塞通风口或通风孔。（如果通风口或通风孔被报纸或布等物堵塞，热量将无法散出。）
- 切勿在本系统上放置明火，如点燃的蜡烛。
- 想要丢弃电池时，务必考虑环保问题以及严格遵守当地关于处理废旧电池　关的法律规定和条例。
- 切勿让本机受雨淋、受潮湿、落上或溅上水滴，亦勿在本机上面放置盛满液体的容器，如花瓶。

IMPORTANT FOR LASER PRODUCTS / 镭射产品的重要说明

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

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

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

CAUTION — Proper Ventilation

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

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

In addition, maintain the best possible air circulation.

注意 — 正确的通风方法

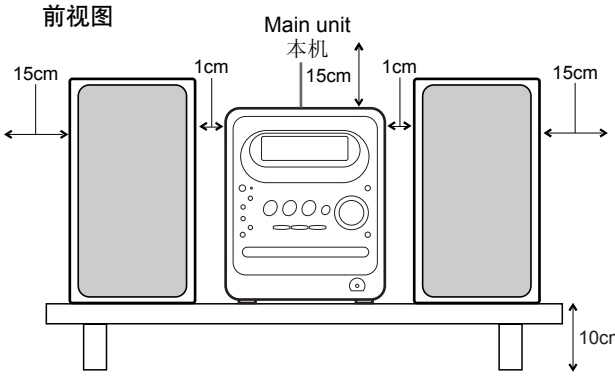
为了防止触电，火灾及避免损坏，

按如下要求放置机器：

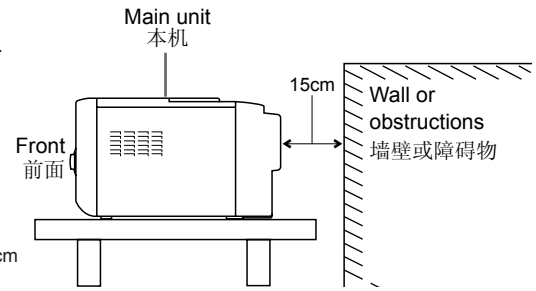
上面 / 前面 / 后面 / 侧面：	在图中所示范围中，不应放置任何障碍物。
底部：	放置在水平面上。放置在一个高 10 cm 或更高的台上以保留足够的通风道。

此外，如图所示，尽可能保持最佳的空气循环。

Front view
前视图



Side view
侧视图



[European Union only]
[仅对应欧洲联盟]

Table of Contents

Used frequently marks refer to operation used frequently. You can quickly learn the general usage of this product by reading those parts only.

Introduction

Notes on Operation 3
- Suitable Locations for the Main Unit 3
- Condensation 3
- Cleaning the Main Unit 3
- Listener's Etiquette 3
- Playable DVD/CD Types 4
- Disc Structure 5

Special Cautions 6
- Notes on Handling 6
- Supplied Accessories 6

Voltage Adjustment 7

Preparation

Part Description 8

Remote Control 9
- Inserting Batteries into the Remote Control 9
- Operating the TV Using the Remote Control 10

Connections 11
- Connecting the Antennas 11
- Connecting the Speakers 13
- Connecting Other Equipment 14
- Connecting with a TV 14
- When a Clearer Picture Is Desired 15
- Connecting the Power Plug 15
- Disabling the Demonstration Display 15

Basic Operations

Basic Operations 16
- Setting the Clock 16
- Turning On/Off the Main Unit ..... Used frequently 17
- Adjusting the Volume ..... Used frequently 17
- Adjusting the Sound Quality 17
- Temporarily Turning Off the Sound (FADE MUTING) 18
- Emphasizing Heavy Bass Sound (AHB PRO) 18
- Changing the Display Brightness (DIMMER) 18
- Changing the Color Patterns 18
- Selecting the Color System and the Video Processing System (SCAN MODE) 19

Listening to Radio Broadcasts

Listening to Radio Broadcasts ..... Used frequently 20
- Setting the AM Tuner Spacing 20
- Selecting a Radio Station 21
- Storing Radio Stations (Preset) 21
- Tuning In to a Preset Radio Station 21

Listening to Discs

Basic Operations of the DVD Player 22
- Playback ..... Used frequently 22
- Playing Back from a Position 10 Seconds Before (One Touch Replay) 24
- Stopping Playback ..... Used frequently 25
- Resuming Playback (RESUME) 25
- Pausing Playback 25
- Advancing Picture Frame by Frame 25
- Fast Reverse/Fast Forward Search ..... Used frequently 25
- Slow Motion Playback 26
- Skipping to the Beginning of a Track ..... Used frequently 26
- Skipping to the Beginning of a Track with the Number Buttons 26
- Selecting a Track from the Menu Screen 27

Convenient Functions of the DVD Player 28
- Selecting the Audio Language ..... Used frequently 28
- Selecting the Subtitle Language 29
- Selecting a View Angle 29
- Magnifying the Picture (ZOOM) 29
- Adjusting the Picture Quality (VFP) 30
- Creating Realistic Sound (3D PHONIC) 30
- Adjusting Playback Level (DVD LEVEL) 31
- Playing Back the Bonus Group 31
- Browsable Still Pictures (B.S.P.) 32
- Playing Back the Disc in the Desired Order (Program Playback) 32
- Random Playback 34
- Repeat Playback 34

Status Bar and Menu Bar 35
- Using the Status Bar and Menu Bar 35
- Playing Back the Designated Part Repeatedly (A-B Repeat Playback) 36
- Designate the Time (Time Search) 36

Playing Back MP3/WMA and JPEG Discs 37
Playback 37
Preferences 39
Basic Operations 39
LANGUAGE 39
PICTURE 39
AUDIO 40
OTHERS 40
Language Codes 41

Listening to Cassette Tapes

Listening to Cassette Tapes ..... Used frequently 42

Listening to Other Equipment

Listening to Other Equipment 43
Adjusting the Sound Input Level from Other Equipment 43

Recording Sound

Recording Sound to Cassette Tapes ..... Used frequently 44
Quitting Recording 45
Recording Only One Track from a Disc 45
Recording the Second or Subsequent Track to the Last Track from a Disc 45
Program Recording from a Disc 45
Recording with No Blank Time between Tracks 45
Erasing Recorded Sound from a Cassette Tape 45

Convenient Functions

Using the Timers 46
Sleep Timer 46
Recording Timer 47
Playback Timer 48
Auto Standby 50
Disc Ejection Lock 51
Using AV COMPU LINK 51
Connection and Setting 51
Operations 51

Reference

Handling Discs/Cassette Tapes 52
Disc Messages 53
Troubleshooting 53
Specifications 54

Notes on Operation

Suitable Locations for the Main Unit

To minimize the need for servicing and maintain the high quality of this product, do not place the main unit in the following locations:

- In a position subject to high humidity or considerable dust
- On an uneven or unstable surface
- Near a heat source
- Near a computer, fluorescent light or other electric appliance
- In a small room with insufficient ventilation
- In a position exposed to direct sunlight
- In a position exposed to excessive cold
- In a position exposed to strong vibration
- Near a TV, other amplifier, or tuner
- Near a magnetic source

CAUTION

- The operating temperature of this product is 5°C to 35°C. Use in temperatures outside this range may cause a malfunction or damage the product.

Condensation

Under the following conditions, you may not be able to operate this product properly due to condensation formed on the lens of the main unit:

- When you have just started an air conditioner to warm your room
- When you have placed the main unit at an area with high humidity
- When you have moved the main unit from a cold place to a warm place

When condensation forms, leave the main unit turned on, wait for approximately 1 or 2 hours, and then operate the main unit.

Cleaning the Main Unit

When the operation panel becomes dirty, dust it with a soft dry cloth. When the operation panel is very dirty, wipe it with a cloth dampened with a small amount of a neutral detergent, and then wipe it with a soft dry cloth.

CAUTION

- Do not wipe the operation panel with thinners, benzenes or other chemical agents. Do not spray insecticides onto the operation panel. These may cause discoloration and damage to the surface.

Listener's Etiquette

When using headphones, keep the volume at a moderate level so as not to over-stimulate your ears.

■When enjoying sound from the speakers, adjust the volume to a suitable level to avoid disturbing your neighbors.
Even low-volume sound carries a long way, especially at night. Show consideration to your neighbors by closing windows or using headphones.

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- "DTS" and "DTS 2.0+DIGITAL OUT" are registered trademarks of Digital Theater Systems, Inc.
- This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.
- DVD Logo is a registered trademark of DVD Format/Logo Licensing Corporation.

Playable DVD/CD Types

	CD-R/ CD-RW	DVD-R	DVD-RW
Audio CD	Playable	—	—
VCD/SVCD	Playable	—	—
MP3/WMA/JPEG	Playable	Playable[1]	Playable[1]
DVD Video	—	Playable	Playable
DVD VR	—	—	Playable[2]

- Discs should be finalized before being played back.

1 Among MP3/WMA/JPEG discs, only discs formatted with ISO 9660 (known as UDF Bridge) are playable.
2 Only when a DVD-RW is compatible with CPRM (Content Protection for Recordable Media), DVD VR format can be used.

It is possible to play back finalized +R/+RW (DVD Video Format only) discs. "DVD" lights on the front display panel when a +R/+RW disc is loaded.

Some discs may not be played back because of their disc characteristics, recording conditions, or damage or stains on them.

Only sounds can be played back from the following discs:

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

Region code of DVD VIDEO
DVD players and DVD VIDEOs have their own region code numbers. This product can only play back a DVD VIDEO recorded with the region code number "3" (or any region code number that includes "3") or "ALL".

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 product.**

Discs you can play back:

Disc Type	Mark (Logo)
DVD VIDEO	
DVD AUDIO	
VCD	
SVCD	
CD	
CD-R	
CD-RW	

About CD-Rs/CD-RWs and DVD-Rs/DVD-RWs

- Playback is impossible in some cases due to the disc characteristics, recording condition, scratches or dirt on the disc, or dirt or condensation on the lens.
- Before using a disc, carefully read the cautions regarding the disc.
- This product does not support playback or CD text display of sound files such as MP3s.
- To play back a CD-RW or DVD-RW on this product, erase all tracks if the CD-RW or DVD-RW was recorded in a format other than the format described on the left. Using the CD-RW or DVD-RW without erasing all tracks may result in damage to the speakers or other parts caused by sudden loud volume.

Discs that cannot be played back

- The following discs cannot be played back:
  DVD-ROM, CD-ROM, DVD-RAM, 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.
- JVC do not guarantee the operation and sound quality of discs not authorized by CD-DA, which is a CD specification.
  Before playback, confirm that the disc complies with this CD specification by checking the marks and reading notes printed on the package.

About MP3/WMA/JPEG discs

Playable MP3/WMA/JPEG discs and files

- CDs recorded in the ISO 9660 format are playable (except CDs recorded in the "packet write" format (UDF format)).
- CDs recorded in the multi-session format are also playable.
- Files with an extension of ".mp3", ".wma", ".jpg" or ".jpeg" (extensions with uppercase and lowercase letters mixed are also acceptable) are playable.
- This product cannot play back DVDs recorded in multi-session or multi-border format.

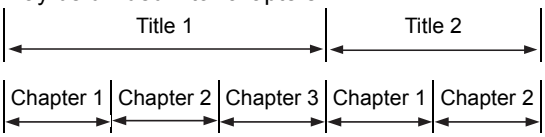
Notes on MP3/WMA/JPEG discs and files

- A disc may not be played back, 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/WMA/JPEG file, the track/file name will not be displayed correctly.
- The order of tracks/groups displayed on the MP3/WMA Control screen, and the order of files/groups displayed on the JPEG Control screen may be different from that of files/folders displayed on a computer monitor screen.
- In the case of MP3/WMA discs, since groups/tracks are played back in alphabetical order, a commercially available MP3/WMA disc may be played back in an order different from that indicated on the label attached to the disc.
- Playing back an MP3 file including a still image may take a long time. The elapsed time is not displayed until playing back starts. If playing back starts, the elapsed time may not be displayed correctly.
- For an MP3 file, a disc with a sampling frequency of 44.1 kHz and transmission rate of 128 kbps is recommended.
- This product is not compatible with MP3i or MP3PRO.
- This product can play back a baseline JPEG file, excluding monochromatic JPEG files.
- This product can play back JPEG data taken with a digital camera conforming to the DCF (Design Rule for Camera File System) standard (when a function such as the automatic image rotation function of a digital camera is applied, the data no longer complies with 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 product cannot play back animations such as MOTION JPEG, still pictures (TIFF etc.) other than JPEG, or image data with sound.
- The resolution of 640 x 480 pixels is recommended for JPEG files. If a file has been recorded at a resolution of more than 640 x 480 pixels, display may take a long time. An image with a resolution of more than 8 192 x 7 680 pixels cannot be displayed.

Disc Structure

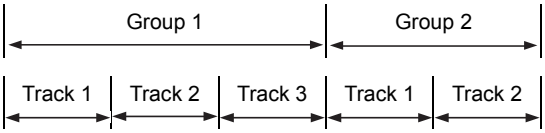
DVD VIDEO

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



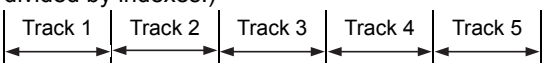
DVD AUDIO

A DVD AUDIO consists of "groups" and each group may be divided into "tracks".
Some discs include a "bonus group" that requires a password for playing (☞ page 31).



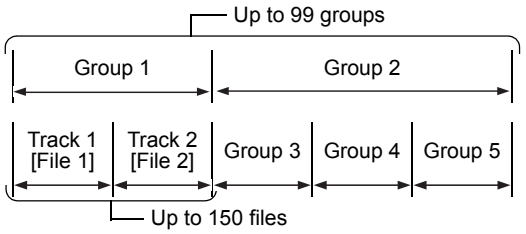
VCD/SVCD/CD

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



MP3/WMA [JPEG] discs

On an MP3/WMA [JPEG] disc, each still picture (material) is recorded as a track [file]. Tracks [Files] are usually grouped into a folder. Folders can also include other folders, creating hierarchical folder layers.
This unit simplifies the hierarchical construction of a disc and manages folders by "groups".



This product can recognize up to 4 000 tracks [files] in a disc. Also, the product can recognize up to 150 tracks [files] per group and up to 99 groups in a disc. Since the unit ignores tracks [files] with numbers exceeding 150 and groups with numbers exceeding 99, these cannot be played back.

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

Special Cautions

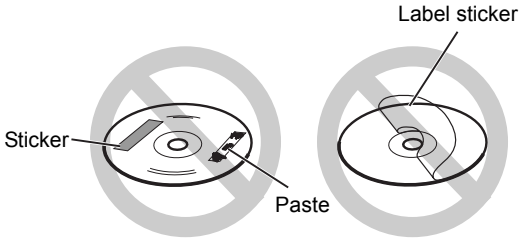
Notes on Handling

■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 CDs. Recording of copyrighted material may infringe copyright laws.

■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 equipment.

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)
Video cord (1)
AC plug adaptor (1)

- 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.

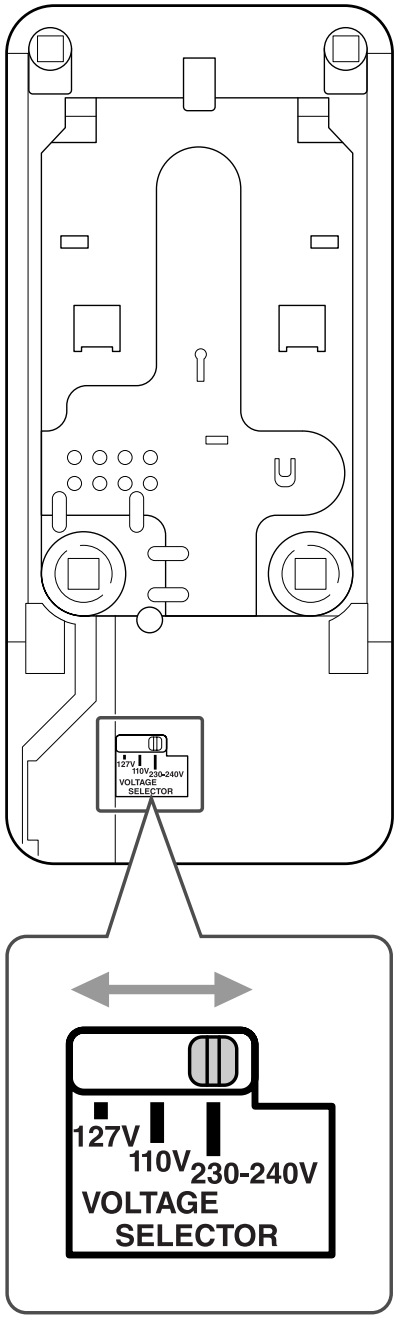
Voltage Adjustment

Before connecting the power plug, make sure that the voltage selector is set to the correct voltage for your area.

CAUTION

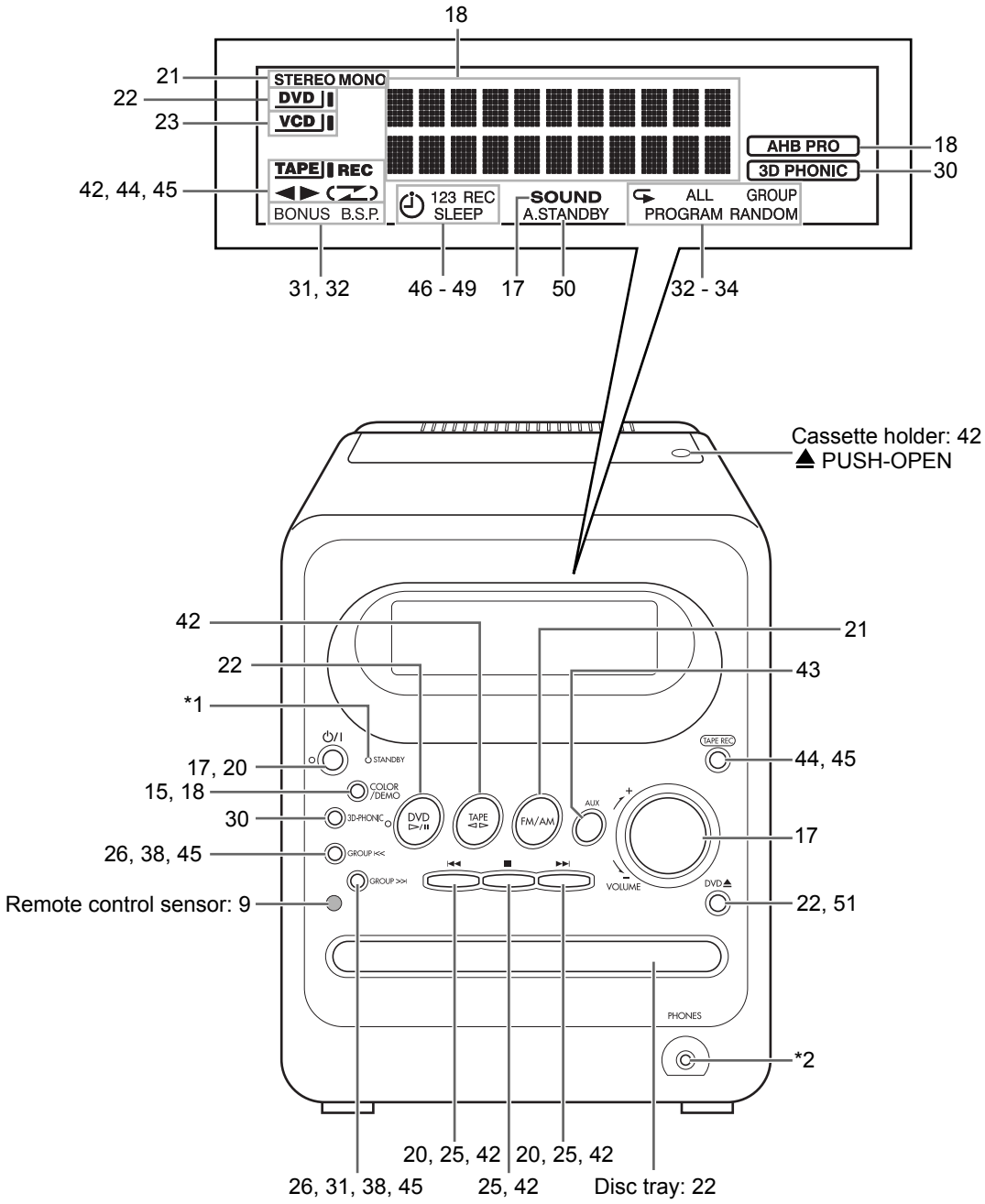
- DO NOT plug in before setting the voltage selector on the bottom of the main unit and all connections are complete.

Bottom view of the main unit



Part Description

The numbers refer to the pages in which the parts are explained.

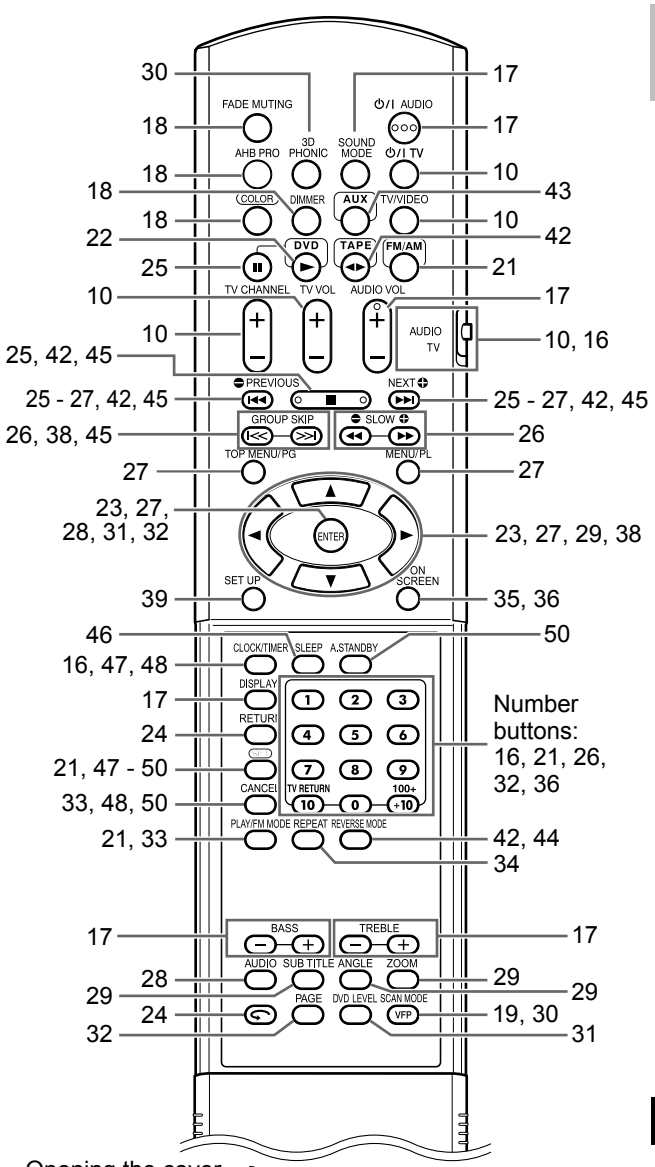


*1 When the power is turned off, the STANDBY indicator lights up red. When the power is turned on, the STANDBY indicator lights up green.

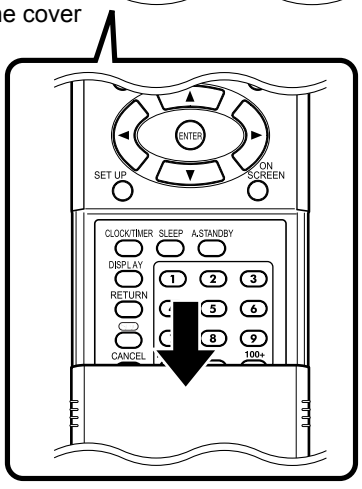
*2 This terminal is for connecting a pair of headphones equipped with a stereo mini plug (commercially available). While the headphones are connected, the speakers do not produce any sound.

Remote Control

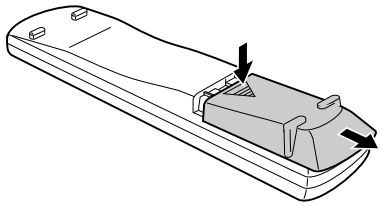
The numbers refer to the pages in which the parts are explained.

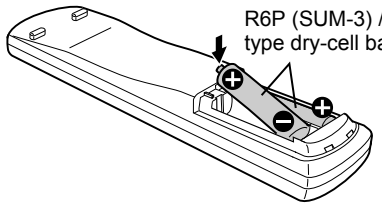


Opening the cover

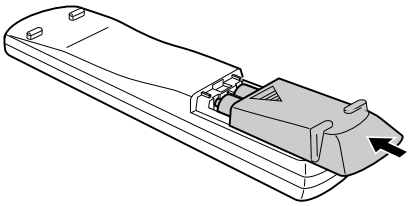


Inserting Batteries into the Remote Control





R6P (SUM-3) /AA (15F) type dry-cell batteries (2)



CAUTION

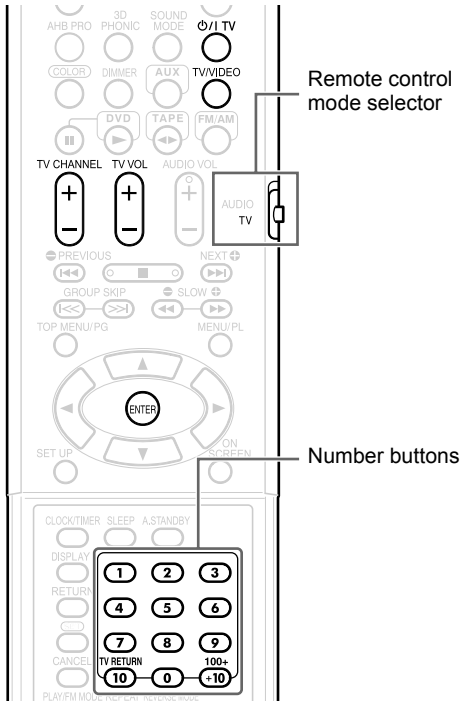
- Do not use a used battery and a new battery together.
- Do not use different types of batteries at the same time.
- Take out the batteries if the remote control is not to be used for a long time. Otherwise it may cause a leakage.

Remote control operation

- When operating the remote control, point it at the front panel of the main unit.
- The effective distance between the remote control and the remote control sensor on the main unit is approximately 5 m maximum.
- When the effective distance decreases, replace the batteries.
- Do not drop the remote control or subject it to excessive shock.

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

Operating the TV Using the Remote Control



Setting the manufacturer's code

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

2 Hold down ⏻/I TV.

Hold down ⏻/I TV until step 4 is completed.

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 two or more manufacturer's codes, try them in turn and select the one that enables 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
Philips	14	Zenith	09
RCA	05		

5 Release ⏻/I TV.

NOTE

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

For TV operation

Operate the remote control by pointing it towards the TV.

⏻/I TV	Turn on/off the power.	
TV CHANNEL + −	Change channels.	
TV VOL + −	Adjust volume.	
1 - 9 / 0 / 100+ +10	AUDIO TV *1	Select channels.
TV RETURN 10	Change between the previously selected channel and the current channel.	
TV/VIDEO	Change between TV and video input.	

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

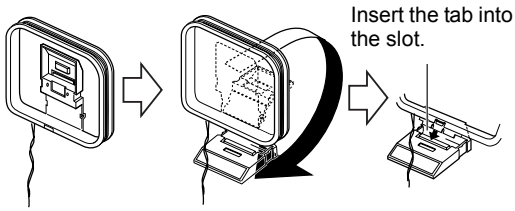
NOTE

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

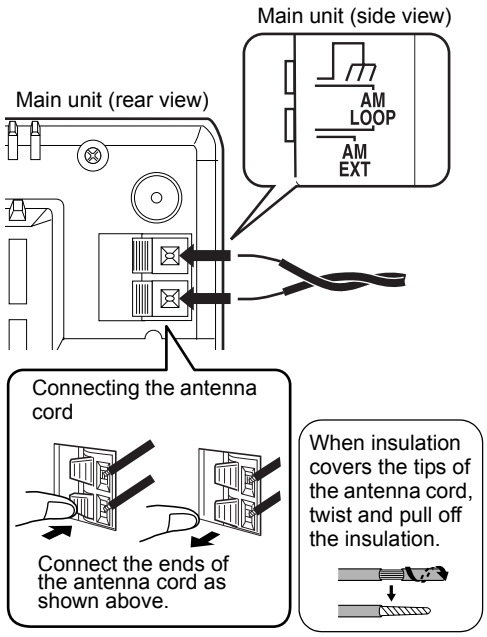
Connecting the Antennas

Connecting the AM antenna

1 Set up the AM antenna (supplied).



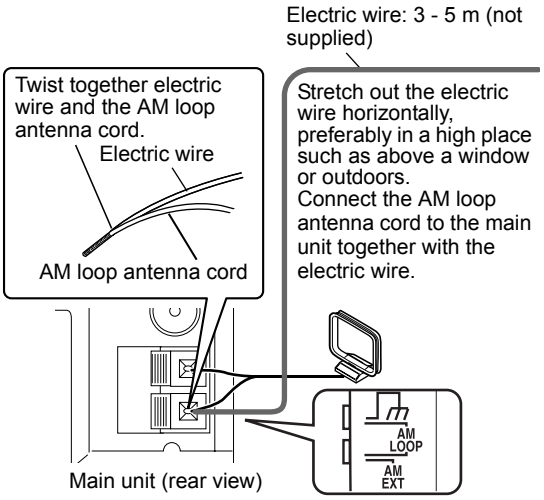
2 Connect the antenna cord.



3 Turn the AM loop antenna to find the best position for radio reception.
Place the AM loop antenna as far from the main unit as possible.

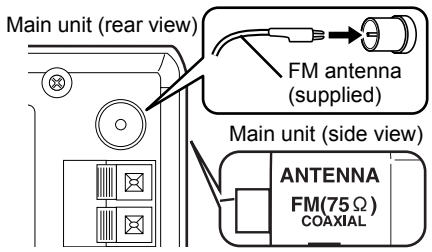
- Do not place the AM loop antenna on a metallic table or close to a TV, computer, or other electric appliances. Doing so may affect radio reception.

■When radio reception with the supplied AM loop antenna is poor

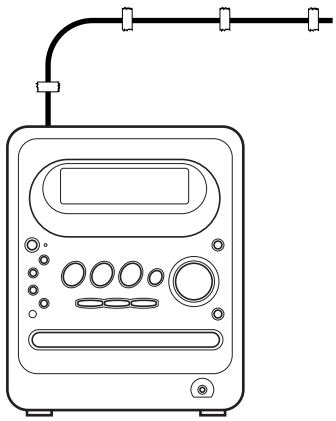


When positioning the antennas, find the best position for reception while listening to an actual radio program (refer to "Listening to Radio Broadcasts" (☞ page 20)).

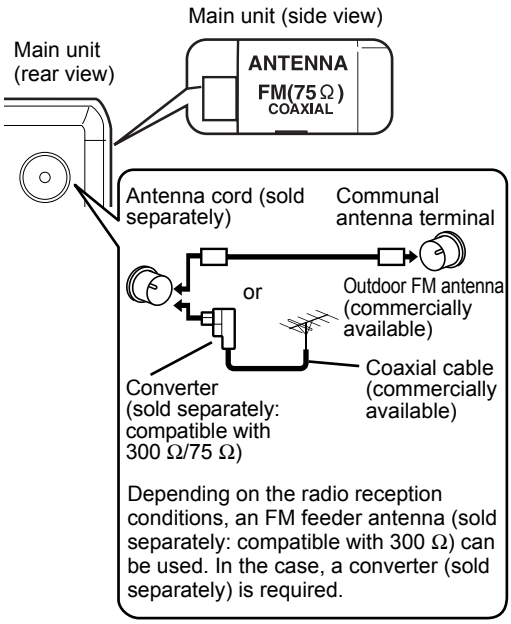
Connecting the FM antenna



Stretch out the FM antenna to the best position for radio reception, and then fix it with adhesive tape.



■When radio reception with the supplied FM antenna is poor, or when using a communal antenna

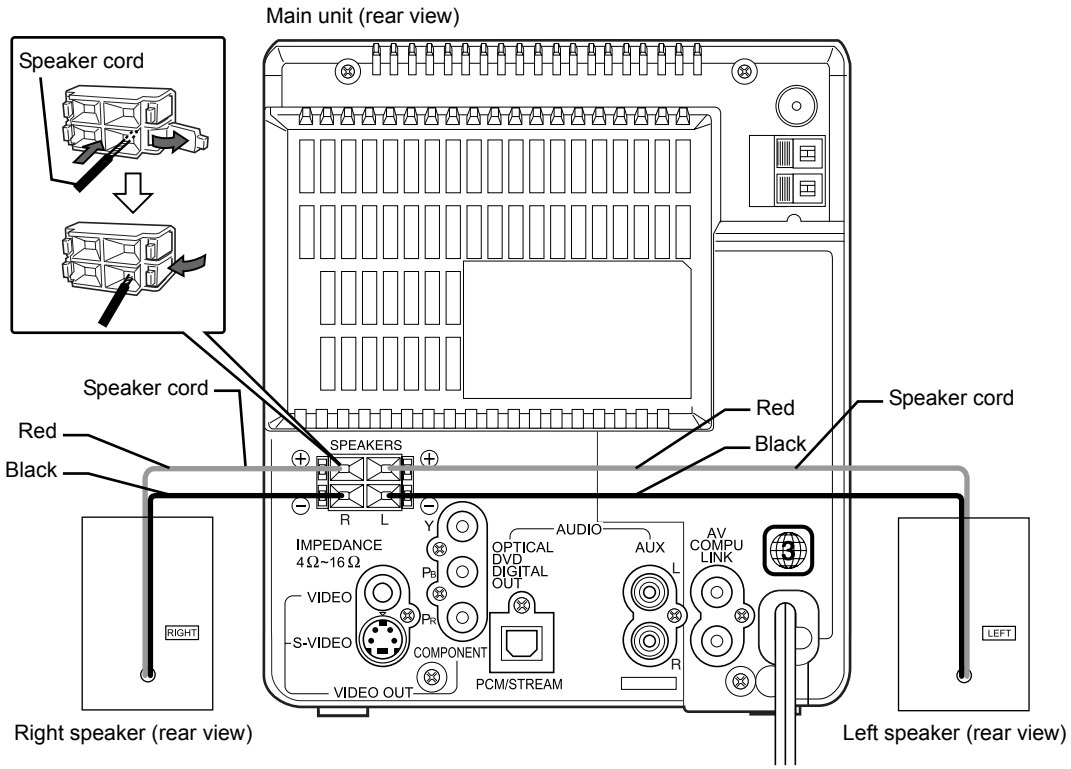


When using an antenna other than those supplied with this product, refer to the operation manuals for the antenna for details of connection.

When positioning the antennas, find the best position for reception while listening to an actual radio program (refer to "Listening to Radio Broadcasts" (☞ page 20)).

Connecting the Speakers

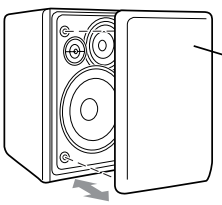
After connecting the speakers, gently pull on the speaker cords to make sure that they are firmly connected.



CAUTION

- Do not short-circuit the ⊕ and ⊖ speaker terminals. Doing so may damage the main unit.
- Do not connect other speakers together with the supplied speakers. The change in impedance may damage the main unit and the speakers.
- The speakers of this product are magnetically shielded, but color irregularities may occur on the TV depending on how the speakers are installed. Keep in mind the following.
  1. Turn off the main power of your TV before installing the speakers. Wait for about 30 minutes before turning on the TV again.
  2. If color irregularity occurs in pictures, keep enough distance between the TV and the speakers.

You can detach the speaker cover.

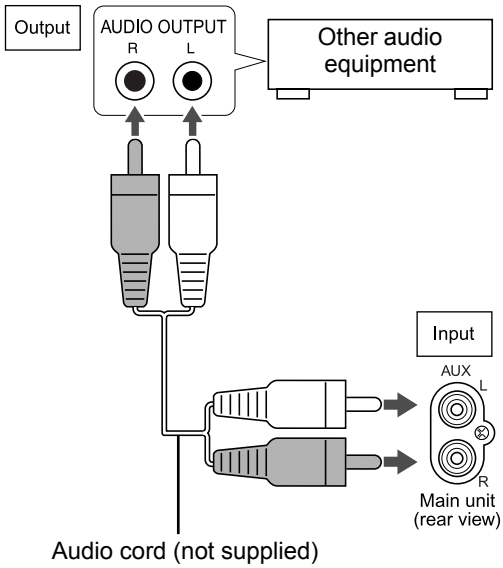


NOTE

- Improper speaker cord connection spoils the stereo effect and sound quality.
- The impedance of speakers connected to this product must be within the range of 4 Ω to 16 Ω.
- A cooling fan is built into the main unit. The internal cooling fan automatically rotates to dissipate generated heat. To ensure sufficient cooling, leave a space of at least 1 cm between the main unit and the speakers or other objects.

Connecting Other Equipment

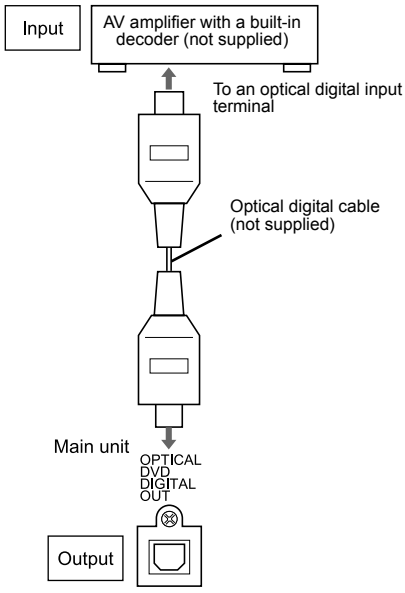
Read this section when connecting other audio equipment to this product.



CAUTION

- Before connecting other equipment, turn off both the main unit and the equipment.

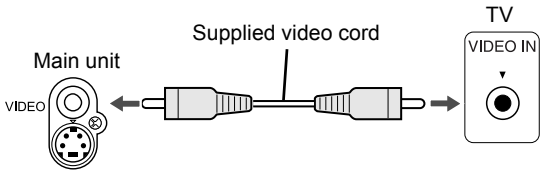
Connecting with digital equipment



CAUTION

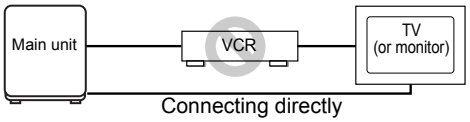
- For details of signals to be output, refer to "List of relationships of DIGITAL AUDIO OUTPUT preference items and output signal". (☞ page 40)
- If the main unit is connected to equipment with a Dolby Digital decoder, "D. RANGE COMPRESSION" setting of "AUDIO" (☞ page 40) is disabled for sound from the digital audio output of the main unit.
- Set "3D PHONIC" to "OFF" (☞ page 30) when an external equipment is using a signal from the OPTICAL DVD DIGITAL OUT terminal on the main unit.

Connecting with a 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 back. (Such picture distortion is caused by a copy protection system and is not a malfunction.)



Connecting directly

Also, if the main unit is connected to a TV with a built-in VCR, there may be picture distortion during playback.

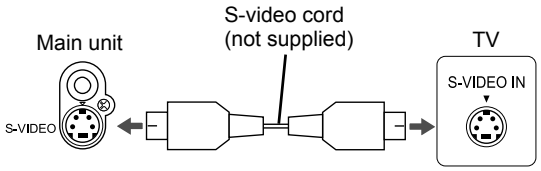
NOTE

- Before playing back the discs with video output, you need to select the color system and the video processing system. Refer to "Selecting the Color System and the Video Processing System (SCAN MODE)" (☞ Page 19).
- You need to set "MONITOR TYPE" in the "PICTURE" menu correctly according to the aspect ratio of your TV. (☞ page 39)

When a Clearer Picture Is Desired

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

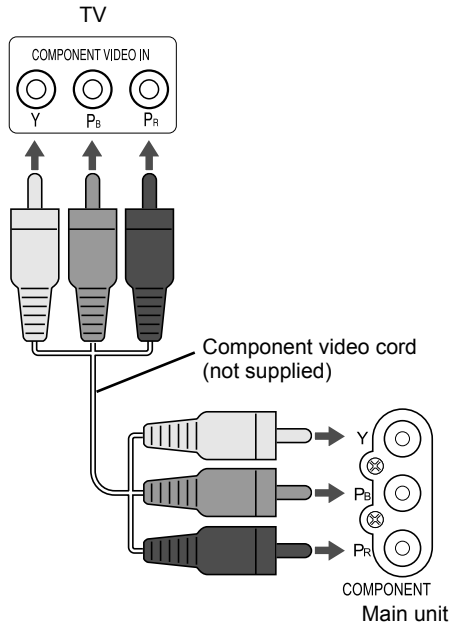
Connecting by using the S-video cord



Connect the ends of S-video cord making sure that each end matches its compatible terminal.

Connecting by using the component video cord

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



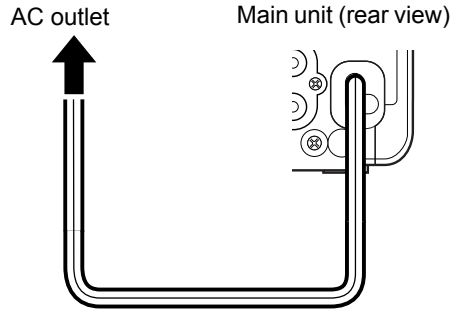
CAUTION

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

NOTE

- In order to enjoy pictures with the progressive mode (☞ page 19), 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 Plug



- After making all other necessary connections, connect in the power plug.
- If not using this product for a long period, disconnect the power plug from the AC outlet for safety and to save electricity.
- The clock setting will be lost after the power plug has been disconnected or the power is interrupted for more than 1 minute. The timer settings will be lost when the power is interrupted. When the power is restored, set the clock and the timers again.

Disabling the Demonstration Display

When you connect the power plug into the AC outlet, "DEMO START!" appears in the display window and the demonstration display starts. Before using the main unit, turn off the demonstration display by setting the function to "DEMO CLEAR".

■When the power is turned off

Hold down COLOR /DEMO on the main until "DEMO CLEAR" appears.

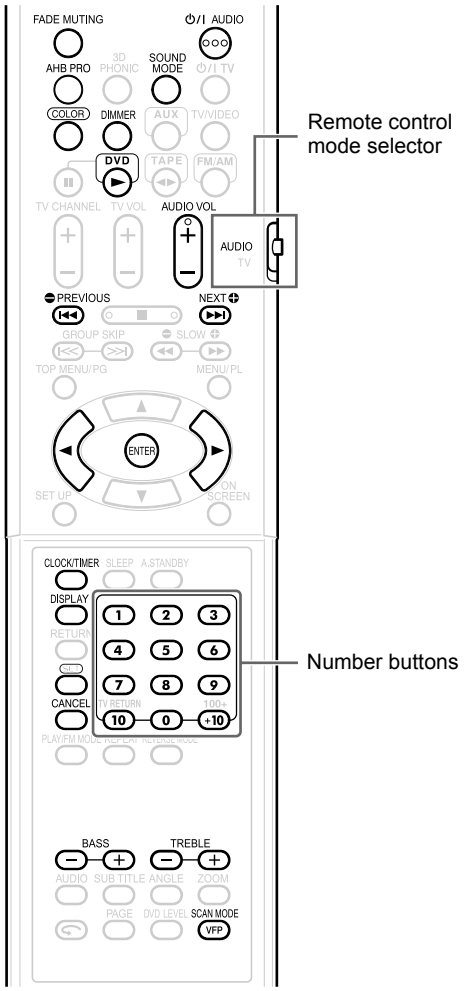
Disconnecting and then reconnecting the power plug will not start the demonstration display.

NOTE

- To activate the demonstration display again, hold down COLOR /DEMO on the main unit while the power is off until "Hello" appears.
- Activating the demonstration display turns on the main unit.
- When you press a button on the main unit, "DEMO OFF" appears in the display window and the demonstration display is canceled. (Disconnecting and then reconnecting the power plug will start the demonstration display again.)

Basic Operations

This manual explains the operations assuming that you will use the remote control. Some buttons on the main unit are the same as those on the remote control.



CAUTION

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

Using the number buttons

Examples: 3: (3)
13: (+10) → (3)
20: (+10) → (10)
23: (+10) → (+10) → (3)

Setting the Clock

You can set the clock while the main unit is turned either on or off.

Example: To set the clock to 10:10 a.m. on Wednesday

1 Press CLOCK/TIMER.

0:00 Sun.

2 Set the hour.

PREVIOUS (Back) NEXT (Next) **or** (Back Next)

- Holding down the button causes the hour to increment.
- You can use the number buttons to specify the hour.
  Refer to "Using the number buttons" shown on the left.

10:00 Sun.

3 Press SET or ENTER.

10:00 Sun.

4 Set the minute.

- Set the minute in the same manner as in step 2.

5 Press SET or ENTER.

6 Set the day of the week.

PREVIOUS (Back) NEXT (Next) **or** (Back Next)

- Each time you press PREVIOUS NEXT or , the day of the week changes.

10:10 Wed.

- Abbreviations are used for the days of the week.
  Sun. → Sunday
  Mon. → Monday
  Tue. → Tuesday
  Wed. → Wednesday
  Thu. → Thursday
  Fri. → Friday
  Sat. → Saturday

7 Press SET or ENTER.

- The clock starts from 0 seconds in the minute you set.

NOTE

- While setting the clock, you can return to the previous step by pressing CANCEL.

(Continued on next page)

Adjusting the clock

Press CLOCK/TIMER four times to display the clock, and then adjust the clock starting from step 2 on page 16.

Displaying the clock while using the main unit

Press DISPLAY repeatedly.

NOTE

- The time display on the main unit is a 24-hour clock.
- The clock will gain or lose approximately 1 minute per month.
- Set the clock again after you have disconnected the power plug or a power is interrupted.

Turning On/Off the Main Unit

Used frequently

Press ⏻/I AUDIO (or ⏻/I on the main unit).

- With the power off, pressing either button also turns on the main unit.

Remote control: DVD TAPE FM/AM AUX

Main unit:

When a disc or cassette tape has been loaded, playback starts automatically.

NOTE

- Cooling fan is built into the main unit for emitting generated heat. When you turn on the main unit, the internal cooling fan automatically starts rotating.

Adjusting the Volume

Used frequently

Press AUDIO VOL **.**

NOTE

- You can also adjust the volume by turning the VOLUME control on the main unit.
- You can adjust the volume within the range of 0 to 40.

Adjusting the Sound Quality

Selecting the sound mode

Press SOUND MODE.

- Each time you press SOUND MODE, the display changes as follows.

ROCK	: For emphasizing treble and bass sounds.
POPS	: Adequate for songs and narrations.
CLASSIC	: For emphasizing treble sound.
JAZZ	: For uplifting a feeling of being at a live performance.
MANUAL	: For adjusting treble and bass sounds of your choice (shown below).
FLAT	: Cancels the sound mode (factory setting).

- While the sound mode is set to an item other than "FLAT", **SOUND** is displayed in the display window.

NOTE

- This function does not affect recording sound.

Adjusting bass/treble sound

1 Press SOUND MODE repeatedly to display "MANUAL".

2 For adjusting bass sound;
Press BASS (−/+).
For adjusting treble sound;
Press TREBLE (−/+).

- You can adjust the sound quality within the range of -5 to +5.
- The display returns to the sound source display in a few seconds.

NOTE

- While the sound mode is set to an item other than "MANUAL", "NO OPERATE" is displayed in the display window and you cannot adjust bass/treble sound.

Temporarily Turning Off the Sound (FADE MUTING)

Press FADE MUTING **.**

- "FADE MUTING" appears and the volume reduces to "0".
- To return to the previous volume, press FADE MUTING again.

Emphasizing Heavy Bass Sound (AHB PRO)

Press AHB PRO **.**

- Each time you press AHB PRO, AHB PRO function changes between "ON" and "OFF".
- While AHB PRO function is activated, AHB PRO is displayed in the display window.
- "AHB PRO" stands for "Active Hyper Bass PRO".

Changing the Display Brightness (DIMMER)

You can change the brightness of the display window, the disc tray, and the circumference of the VOLUME control.

Press DIMMER **.**

- Each time you press DIMMER, the display changes as follows.

DIMMER 1	: Color pattern becomes dimmer.
DIMMER 2	: Color pattern becomes darker, and switches to blue.
DIMMER AUTO	: DIMMER 2 is automatically selected during video playback, and is canceled when the playback stops.
DIMMER OFF	: Cancels the brightness adjustment (factory setting).

NOTE

- Once you press COLOR to change the color pattern, the brightness returns to the initial setting. (except for DIMMER AUTO)
- You cannot turn off the color pattern.

Changing the Color Patterns

Press COLOR **(or** COLOR /DEMO **on the main unit).**

- Each time you press COLOR, the color of the display window, the disc tray, and the circumference of the VOLUME control changes as follows.

RAINBOW	: A rainbow-like pattern.
OCEAN	: An ocean-inspired pattern.
FLOWER	: A flower-inspired pattern.
GRADATION	: A kaleidoscopic pattern with various colors.
VIOLET	: A sober violet color.
VENUS	: A pink and pale blue pattern inspired by Venus relaxing on the beach.
TURQUOISE	: A bright turquoise blue.
CANDY	: A pink and green candy-inspired pattern.
CRYSTAL	: A bright crystal color.
PINK	: A rose pink color.
ORANGE	: A passion orange color.
GREEN	: A lime green color.
BLUE	: A fresh blueberry color.
PURPLE	: A juicy grape color.

NOTE

- You cannot set different colors for the color of the display window, the disc tray, and the circumference of the VOLUME control.
- When you operate a button on the main unit or remote control, the display window, the disc tray, and the circumference of the VOLUME control light in pale blue for approximately 2 seconds.
- When recording finishes, the color of the display window, the disc tray, and the circumference of the VOLUME control switches to red to inform you that recording has ended. Next time you press a button, the color pattern returns to the selected pattern.

For the locations of remote control buttons, refer to page 16.

Selecting the Color System and the Video Processing System (SCAN MODE)

Before playing back video discs, you need to select the color system and the video processing system.

NOTE

- Make sure that the main unit is connected with the TV using a component video cord when you select the progressive mode (☞ page 15).

1 Press DVD, and then press ■.

2 Hold down SCAN MODE (VFP) for approximately 2 seconds.

- Currently selected color system and the video processing system appear on the display window.

3 Press ◄ ► to select the desired system.

PAL	PAL color system in the interlace mode is selected.
PAL PROG.	PAL color system in the progressive mode is selected. Make sure that the TV supports PAL progressive video input (☞ page 15).
NTSC	NTSC color system in the interlace mode is selected.
NTSC PROG.	NTSC color system in the progressive mode is selected. Make sure that the TV supports NTSC progressive video input (☞ page 15).

"PAL PROG." or "NTSC PROG." gives finer detailed images than "PAL" or "NTSC".

4 While the selected system is displayed, press ENTER.

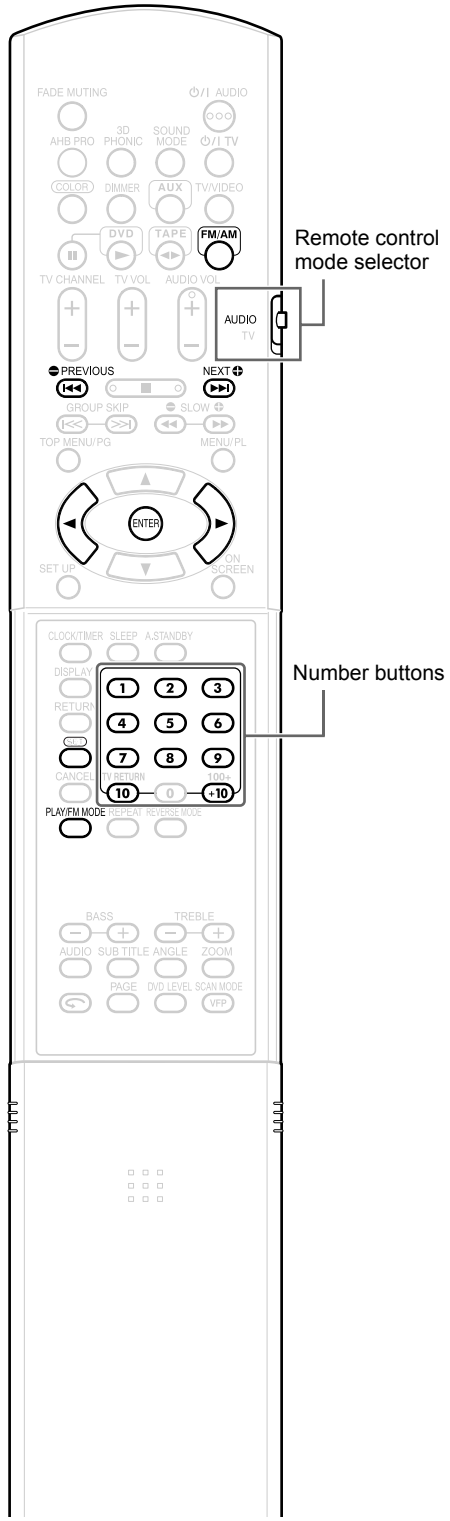
NOTE

- Some TVs may not be compatible with the progressive mode. In this case, select "PAL" or "NTSC".
- All progressive TVs and High-Definition TVs manufactured by JVC are compatible with "PAL PROG." and "NTSC PROG."
- Before playing back a disc, it is also required to select the correct "MONITOR TYPE" in the "PICTURE" menu according to the aspect ratio of your TV (☞ page 39).
- If you play back an NTSC disc with this setting set to "PAL" or "PAL PROG.", you can watch the playback pictures (the disc will be reproduced using "PAL 60" format), but the TV screen may rolls over upward and downward rapidly.
- If you play back a PAL disc with this setting set to "NTSC" or "NTSC PROG.", you can watch the playback pictures, but the following symptoms may occur:
  - The items on the disc menu will be blurred, and be shown slightly shifted when highlighted.
  - The aspect ratio of the picture may differ from the original aspect ratio.
  - The picture movement is not smooth.

Listening to Radio Broadcasts

Used frequently

This product can receive FM and AM radio broadcasts.



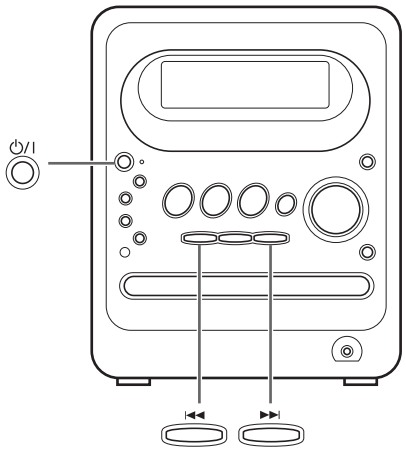
CAUTION

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

Setting the AM Tuner Spacing

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

On the main unit ONLY:



■When the main unit is turned off

To select 10 kHz spacing, while holding down ⏭ on the main unit, press ⏻/I on the main unit to turn on the power. "AM 10 kHz SP" appears in the display window.

To select 9 kHz spacing, while holding down ⏮ on the main unit, press ⏻/I on the main unit to turn on the power. "AM 9 kHz SP" appears in the display window.

NOTE

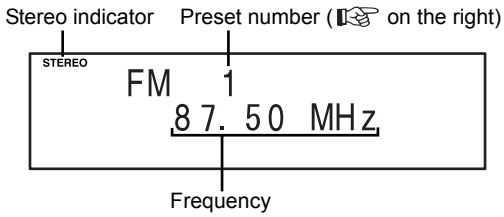
- If the spacing is switched, the memory in which the radio stations were stored will be erased.

For the locations of remote control buttons, refer to page 20.

Selecting a Radio Station

1 Press FM/AM to select "FM" or "AM".

Example: While an FM radio broadcast is received



2 Press PREVIOUS or NEXT repeatedly to select a radio station (frequency).

- You can also select a radio station using the automatic tuning.

Automatic tuning:

Hold down PREVIOUS or NEXT until the frequency starts changing, and then release the button.
When the main unit has received a broadcast, the frequency automatically stops changing.
To quit the function while searching for a broadcast, press PREVIOUS or NEXT.

- When the main unit has received an FM stereo broadcast, "STEREO" lights up.

Switching the FM reception (stereo/monaural):

If an FM stereo broadcast is difficult to hear because of noise, you may be able to hear more easily by pressing PLAY/FM MODE to switch the sound to monaural reception. In this case, "MONO" lights up. To return the sound to stereo reception, press PLAY/FM MODE again.

Storing Radio Stations (Preset)

You can store up to 30 FM radio stations and up to 15 AM radio stations.

■While the broadcast from the radio station you want to preset is being received

1 Set the remote control mode selector to AUDIO.

2 Press SET.

- The preset number flashes for approximately 5 seconds.

3 While the preset number is flashing, press the number buttons (1 - 10 or +10) to select the preset number you want to use.

- Refer to "Using the number buttons" (☞page 16).
- You can also select the preset number by pressing ◄ or ►.

4 While the selected number is flashing, press SET or ENTER.

- "STORED" appears and the selected radio station is stored.

NOTE

- The type of FM reception (stereo/monaural) is also stored (☞ on the left).
- When you store a radio station to a preset number to which another radio station has previously been stored, the newly set radio station replaces the previously stored radio station.

Tuning In to a Preset Radio Station

■While an FM or AM broadcast is being received

1 Set the remote control mode selector to AUDIO.

2 Use the number buttons to select the preset number of the radio station to which you want to tune in.

- Refer to "Using the number buttons" (☞ page 16).
- You can also select the preset number by pressing ◄ or ►.

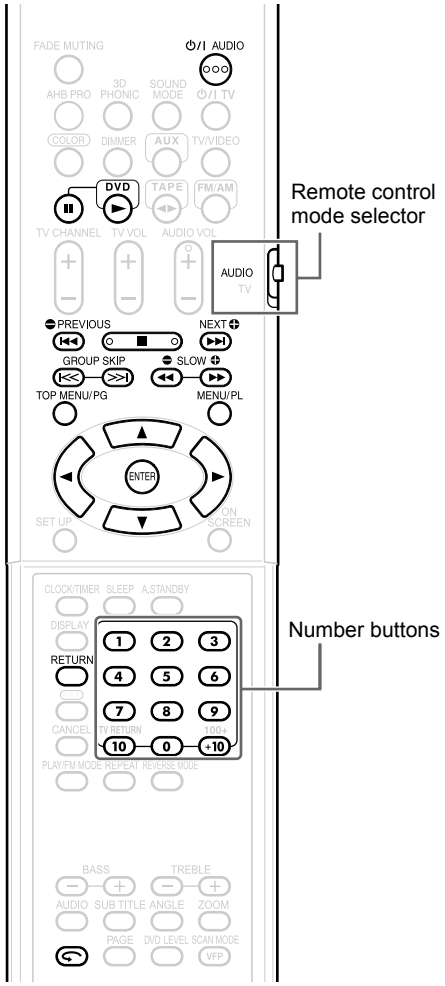
Basic Operations of the DVD Player

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 VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA JPEG

- The illustrations and TV screens may be different between the actual case and the description.
- "DVD VR" means a DVD recorded in DVD Video Recording (DVD VR) format.
- "VCD" stands for "Video CD".
- "SVCD" stands for "Super Video CD".



NOTE

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

Playback

Used frequently

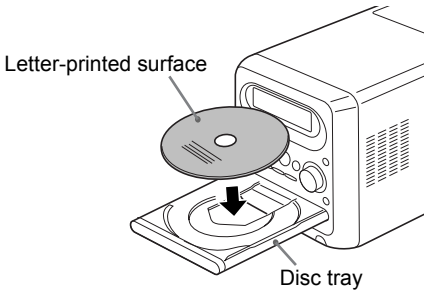
DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD

(Refer to page 37 for playing back MP3/WMA and JPEG.)

1 Press DVD ⏏ on the main unit.

- The disc tray comes out.

2 Place a disc on the disc tray.

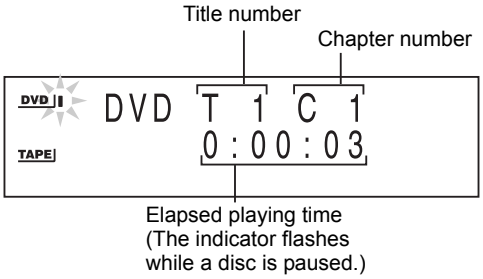


- When you want to listen to an 8 cm disc, place it on the inner hollow of the disc tray.

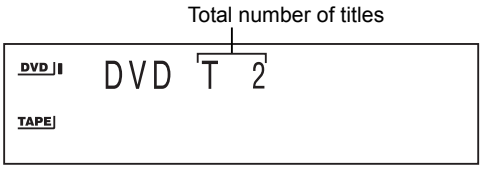
3 Press DVD ▶.

■Display for DVD VIDEO

Display while a DVD VIDEO is being played back:



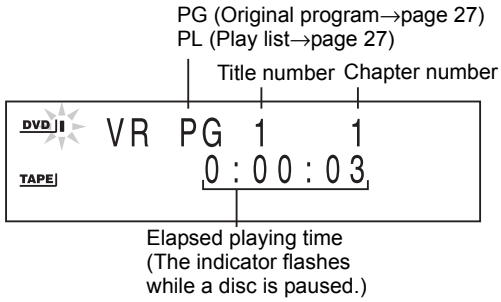
Display while the DVD VIDEO is stopped:



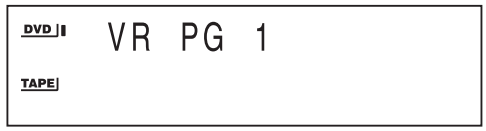
(Continued on next page)

■Display for a DVD VR

Display while a DVD VR is being played back:

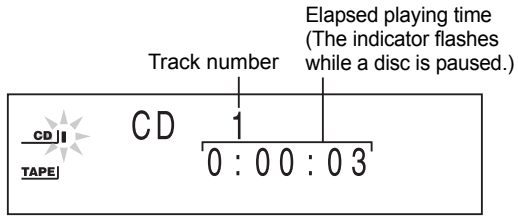


Display while a DVD VR is stopped:

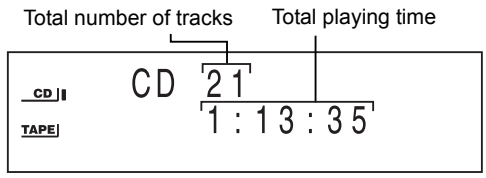


■Display for CD

Display while a CD is being played back:

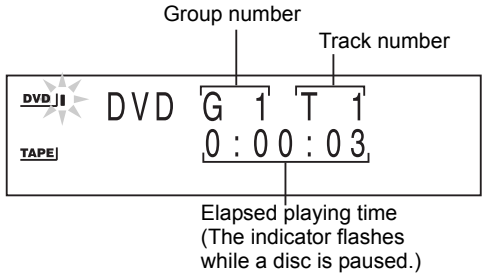


Display while a CD is stopped:

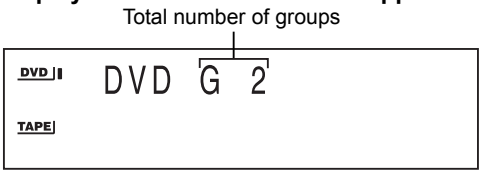


■Display for DVD AUDIO

Display while a DVD AUDIO is being played back:



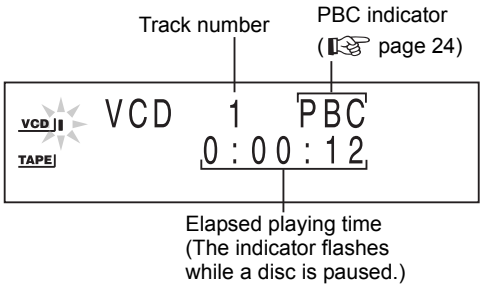
Display while a DVD AUDIO is stopped:



• "G1" and "T1" will appear after the total number of groups is displayed.

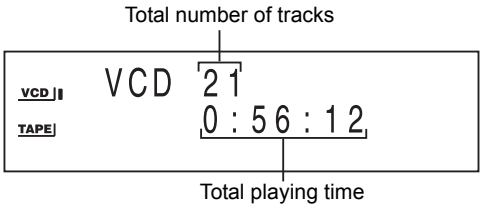
■Display for VCD/SVCD

Display while a VCD/SVCD is being played back:



• PBC indicator is displayed while PBC is activated.

Display while a VCD/SVCD is stopped:



• "PBC" will appear after the total number of tracks is displayed.

NOTE

- The menu may appear in the display window after DVD playback starts. In such a case, select the desired menu item by using the following buttons on the remote control.
  - Select a menu item with ▲, ▼ or ◄►, and then press ENTER.
  - Select a menu item with the number buttons.
- Operation may differ from the explanation given here, depending on the disc type.

Messages displayed on the TV screen
While a DVD is selected as the sound source, the messages shown below are displayed, depending on the status.

NOW READING
The main unit is reading the disc. Wait for a while.

REGION CODE ERROR!
The disc cannot be played back because its region code is not compatible. (☞ page 4)

NO DISC
No disc is loaded.

OPEN
The disc tray is opening.

CLOSE
The disc tray is closing.

CANNOT PLAY
You are trying to play back an unplayable disc.

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

: Play (☞ page 22)
: Pause (☞ page 25)
: Fast reverse/Fast forward search (☞ page 25)
: Slow motion playback (reverse/forward directions)(☞ page 26)
: Containing multi-angle views (☞ page 29)
: Containing multi-audio (☞ page 28)
: Containing multi-subtitle (☞ page 29)
: The disc cannot accept the operation you have attempted.

PBC (Playback control)
- PBC is a signal recorded in a VCD (version 2.0) for controlling VCD playback. You can operate software that has interactive or search functions using the menu display recorded in a PBC-compatible VCD. To play back a VCD without PBC, follow the operation below.
  - Select the desired track number with the number buttons while playback is stopped.
  - While playback is stopped, press PREVIOUS or NEXT to select the desired track number, and then press DVD.
- While a VCD or SVCD is being played back with PBC, press RETURN to return to the higher menu group.

Playing Back from a Position 10 Seconds Before (One Touch Replay)

DVD VIDEO DVD VR

■While a disc is being played back

Press ↩.

NOTE
- This operation may not work with some discs.
- You cannot return to the previous title.

Stopping Playback

Used frequently

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA JPEG

■While a disc is being played back

Press ■.

Resuming Playback (RESUME)

DVD VIDEO DVD AUDIO DVD VR VCD SVCD MP3 WMA

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

How to suspend playback

■While a disc is being played back

Perform any of the following operations during playback.

Press ■ once.*
Press ⏻/I AUDIO to turn off the power.
Change the source to FM/AM or AUX.*

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

How to start playback from the stored position

Press DVD.

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, the subtitle 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" appears. If ■ is pressed at this time, "RESUME" will disappear and the stored information will be cleared.
- **Resume function is set to on as the initial preset. You can set the function to off (☞ page 40).**

Pausing Playback

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA JPEG

■While a disc is being played back

Press ⏸.

To resume normal playback, press DVD.

- Playback cannot be paused by pressing DVD ▷/II on the main unit during JPEG disc slide-show.

Advancing Picture Frame by Frame

DVD VIDEO DVD VR VCD SVCD DVD AUDIO (only for moving images)

■While a disc is paused

Press ⏸.

- Each time you press ⏸, picture will be advanced frame by frame.
- You cannot operate this function with DVD ▷/II on the main unit.

Fast Reverse/Fast Forward Search

Used frequently

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA

There are two methods.

■While a disc is being played back

Press ◀◀ or ▶▶.

- Each time you press ◀◀ or ▶▶, the speed increases as shown below.

  ×2 ➡ ×5 ➡ ×10 ➡ ×20 ➡ ×60

- To restore the normal speed, press DVD.

Hold down PREVIOUS ⏮ or NEXT ⏭.

- Fast reverse/fast forward search can be carried out only while the button is pressed.

NOTE

- For a DVD VIDEO, DVD VR, VCD or SVCD, no sound comes out during fast reverse/fast forward search.
- For a CD, MP3, WMA, or DVD AUDIO, sound is intermittent during fast reverse/fast forward search.

Slow Motion Playback

DVD VIDEO DVD VR VCD SVCD DVD AUDIO (only for moving images)

■While a disc is paused

Press SLOW ◀◀ or SLOW ▶▶.

- Each time you press SLOW ◀◀, the speed increases as shown below.
  $^1/_{32}$ ➡ $^1/_{16}$ ➡ $^1/_8$ ➡ $^1/_4$ ➡ $^1/_2$
- Press ⏸ to pause playback, and press DVD ▶ to resume normal playback.

NOTE

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

Skipping to the Beginning of a Track

Used frequently

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA JPEG (PBC off)

■While a disc is being played back

Press PREVIOUS ⏮ or NEXT ⏭.

- Each time you press PREVIOUS ⏮, the current chapter/track/file skips to the beginning of the previous chapter/track/file.
- Each time you press NEXT ⏭, the current chapter/track/file skips to the beginning of the next chapter/track/file.
- Press GROUP SKIP ⏮⏭ to select a title or group.

NOTE

- Except for a DVD VIDEO, this operation can also be carried out while the disc is stopped.
- This operation may not work with some discs.

Skipping to the Beginning of a Track with the Number Buttons

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA JPEG (PBC off)

■While a disc is being played back

1 Set the remote control mode selector to AUDIO.

2 Press the number buttons (1 - 10 or +10) to select the track/chapter you want to listen to.

- Refer to "Using the number buttons" (☞ page 16).

NOTE

- You can operate a DVD AUDIO, CD, MP3, WMA, or JPEG while the disc is stopped.
- This operation may not work with some discs.

For the locations of remote control buttons, refer to page 22.

Selecting a Track from the Menu Screen

DVD VIDEO DVD AUDIO DVD VR VCD SVCD (PBC off)

■While a disc is stopped or being played back

1 Set the remote control mode selector to AUDIO.

2 Press MENU/PL or TOP MENU/PG.

• A menu screen of the disc appears.

3 Press ▲ ▼ ◄ ► (only for a DVD VIDEO or a DVD AUDIO) or the number buttons to select a track you want to listen to.

• Refer to "Using the number buttons" (☞ page 16).
• If there are two or more pages of menu screen, press PREVIOUS or NEXT to change the pages.

4 Press ENTER.

NOTE

• Only MENU/PL can be used for DVD AUDIOs.
• You cannot perform this function with discs to which a menu screen is not recorded.
• Some disc may start playback even if you do not press ENTER.

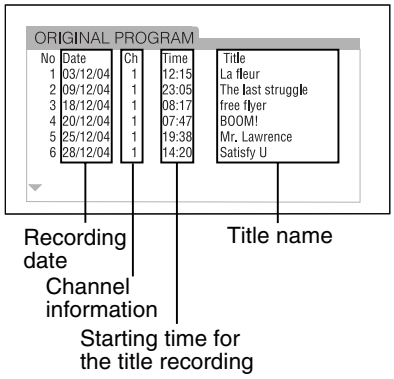
Using the Menu Screen for DVD VRs

■While a disc is stopped or being played back

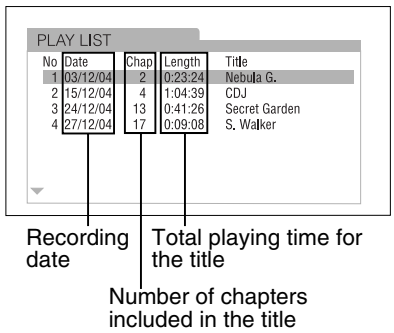
1 Press TOP MENU/PG to display the original program or press MENU/PL to display the play list.

Example

Original program



Play list *



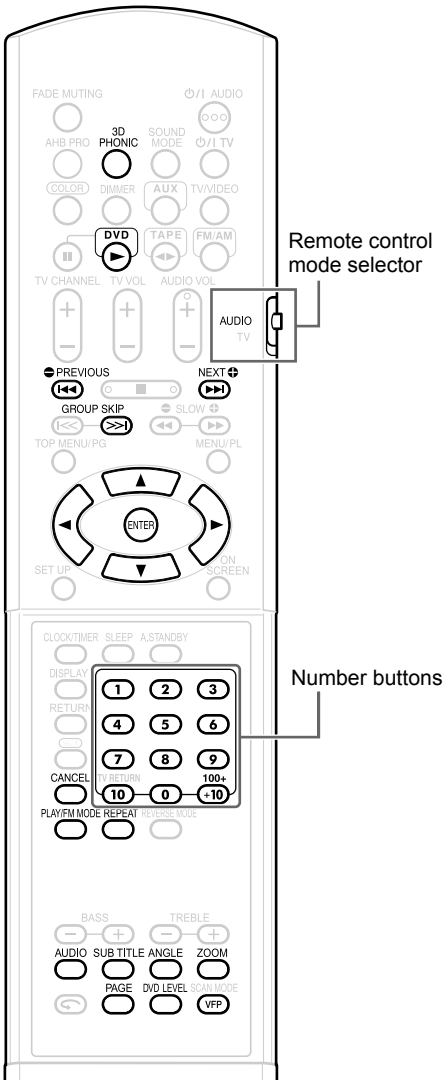
* A play list will appear only when it has been recorded in the disc.

2 Press ▲ ▼ to select the desired title.

3 Press ENTER.

• When you have selected the original program, playback will start from the selected title to the following titles.
• When you have selected the play list only the selected title will be played back.

Convenient Functions of the DVD Player



NOTE

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

Selecting the Audio Language

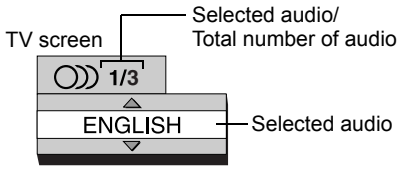
Used frequently

DVD VIDEO DVD AUDIO DVD VR VCD SVCD

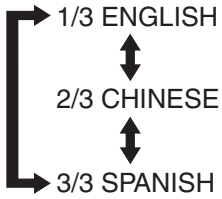
■While a disc containing two or more audio is being played back

1 Press AUDIO.

Example: For DVD VIDEO



- Each time you press AUDIO, the audio will be changed. The audio can changed by pressing ▲ ▼.



2 Press ENTER.

- The audio language setting will change automatically in a few seconds even if ENTER is not pressed.

NOTE

- You can also operate this function by using the menu bar (☞ page 35).
- For a language code such as "AA", refer to "Language Codes" (☞ page 41).
- When 2 channel sounds are recorded in 1/2 and multi channel sounds with down-mix prohibited are recorded in 2/2 in a DVD AUDIO, you can select 1/2 only.

Selecting the Subtitle Language

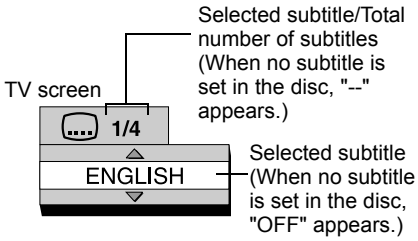
DVD VIDEO DVD VR SVCD DVD AUDIO (only for moving images)

This part explains the operation with displays of a DVD VIDEO as examples.
You can use discs of other types in almost the same manner.

■While a disc containing two or more subtitles is being played back

1 Press SUB TITLE.

Example: For DVD VIDEO



2 Press ▲ ▼ to select a subtitle.

3 Press ENTER.

- The subtitle language setting will change automatically in a few seconds even if ENTER is not pressed.

NOTE

- You can also operate this function by using the menu bar (☞ page 35).
- For an SVCD, each time you press SUB TITLE in step 1, the subtitle type and ON/OFF will be changed.
- For a language code such as "AA", refer to "Language Codes" (☞ page 41).
- The manner of displaying subtitles may be different depending on the disc.

Canceling the subtitle

Press SUB TITLE to select "OFF".

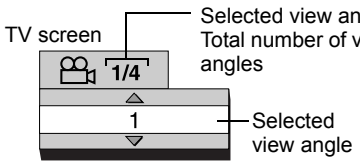
Selecting a View Angle

DVD VIDEO DVD AUDIO (only for moving images)

■While a disc containing two or more view angles is being played back

1 Press ANGLE.

Example: For DVD VIDEO



- Each time you press ANGLE, the angle will be changed. The angle can also be changed by pressing ▲ ▼.

2 Press ENTER.

- The view angle setting will change automatically in a few seconds even if ENTER is not pressed.

NOTE

- You can also operate this function by using the menu bar (☞ page 35).

Magnifying the Picture (ZOOM)

DVD VIDEO DVD VR VCD SVCD DVD AUDIO JPEG (only for moving images)

■While a disc is played back or paused

1 Press ZOOM.

- Each time you press ZOOM, the picture magnification will be changed (OFF, ZOOM1 - 6).
- When a JPEG disc is used, the picture magnification changes through "ZOOM 1", "ZOOM 2" to "OFF". You cannot change the picture magnification during slide-show playback.

2 Select the portion you want to see by pressing ▲ ▼ ◄ ►.

CAUTION

- When you magnify a picture, image quality may be deteriorated or image may be distorted.

Adjusting the Picture Quality (VFP)

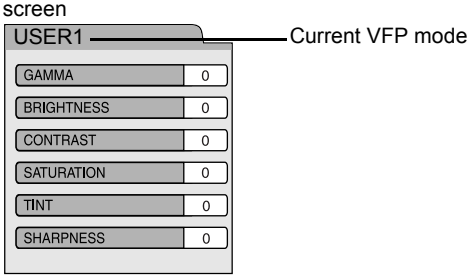
DVD VIDEO DVD AUDIO DVD VR VCD SVCD JPEG

■While a disc is played back or paused

1 Press (VFP).

Example: For DVD VIDEO

TV screen



Setting items

GAMMA : Controls the brightness of neutral tints while maintaining the brightness of dark and light portions.
(Setting range: **–3 - +3**)

BRIGHTNESS : Controls the brightness of the display.
(Setting range: **–8 - +8**)

CONTRAST : Controls the contrast of the display.
(Setting range: **–7 - +7**)

SATURATION : Controls the saturation of the display.
(Setting range: **–7 - +7**)

TINT : Controls the tint of the display.
(Setting range: **–7 - +7**)

SHARPNESS : Controls the sharpness of the display.
(Setting range: **–8 - +8**)

2 Press ◄ ► to select VFP mode.

NORMAL : For normal playback.
(You cannot adjust the image quality.) → Go to step 7.

CINEMA : Suitable when viewing a movie in a dim room.
(You cannot adjust the image quality.) → Go to step 7.

USER1/USER2: You can adjust the image quality.
→ Go to step 3.

3 Press ▲ ▼ to select an item you want to adjust.

4 Press ENTER.

Example: For DVD VIDEO

TV screen

5 Press ▲ ▼ 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" stands for "Video Fine Processor".

Creating Realistic Sound (3D PHONIC)

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA

The two speakers produce an effect resembling surround-sound.

■While a disc is being played back

Press 3D PHONIC.

Example: For DVD VIDEO

TV screen

• Each time you press 3D PHONIC, the display changes as follows.

ACTION : Suitable for action movies, sport programs or other lively programs.

DRAMA : You can relax with a natural atmosphere.

THEATER : You can enjoy the sound effect as if you were watching the movie in a theater.

OFF : Cancels 3D phonic (factory setting).

• While 3D phonic is activated, 3D PHONIC is displayed in the display window.

NOTE

- 3D phonic is effective for both the speakers and headphones.
- When noise is produced or sound is distorted, set "3D PHONIC" to "OFF".
- This operation may not work with some discs.
- The volume may be increased automatically after "3D PHONIC" is activated for some discs.

Adjusting Playback Level (DVD LEVEL)

DVD VIDEO DVD AUDIO

The audio of a DVD VIDEO and DVD AUDIO may be recorded at a lower level (volume) than for other types of disc. You can adjust the DVD level.

■While a disc is being played back

Press DVD LEVEL.

- Each time you press DVD LEVEL, the display changes as follows in the display window.

NORMAL : Sound level recorded in the DVD.
↓
MIDDLE : Enhances the sound level (factory setting).
↓
HIGH : Enhances the sound level to the highest level.

- Select the level while listening to the sound played back.

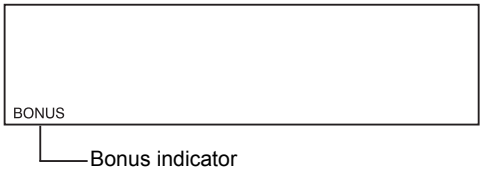
NOTE

- 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 function does not affect the recording sound being recorded.

Playing Back the Bonus Group

DVD AUDIO

Some DVD AUDIO discs have a special group, called a "bonus group", recorded.



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

■While a disc is being played back

1 Set the remote control mode selector to AUDIO.

2 Press GROUP SKIP repeatedly during playback to select a bonus group.

- "KEY_ _ _ _" appears on the TV screen and in the display window on the main unit.

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

- The method of obtaining the pin code differs depending on the disc.

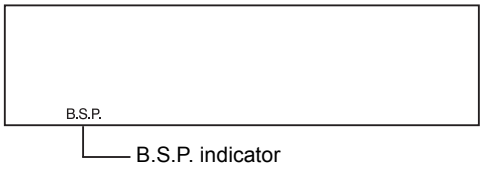
4 Press ENTER.

- 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.)

DVD AUDIO

There are some DVD AUDIO discs with still pictures recorded. Among the still pictures, there are pictures called B.S.P. (browsable still pictures). You can change these pictures as if turning over pages.

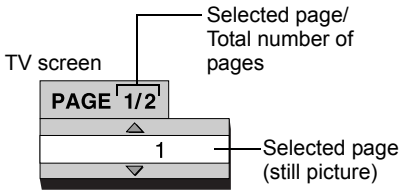


- This operation can be carried out when "B.S.P." is lit in the display window on the main unit.

■While a disc is being played back

1 Press PAGE.

- Each time you press PAGE, the still picture will be switched over.
- You can also change the pictures by pressing ▲ ▼.



2 Press ENTER.

- The B.S.P setting will be stored automatically in a few seconds even if ENTER is not pressed.

NOTE

- You can operate this function on the menu bar (☞ page 35).

Playing Back the Disc in the Desired Order (Program Playback)

DVD VIDEO DVD AUDIO VCD SVCD CD MP3 WMA

You can program a maximum of 99 chapters or tracks. You can program the same chapter or track more than once.

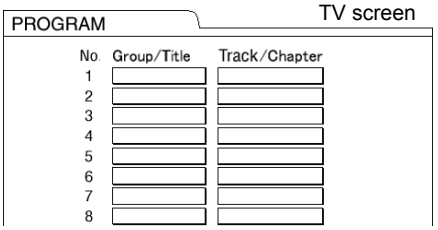
■While a disc is stopped

1 Set the remote control mode selector to AUDIO.

2 Press PLAY/FM MODE to select "PROGRAM".

- In case you have pressed PLAY/FM MODE more than twice, press PLAY/FM MODE repeatedly to display "PROGRAM".

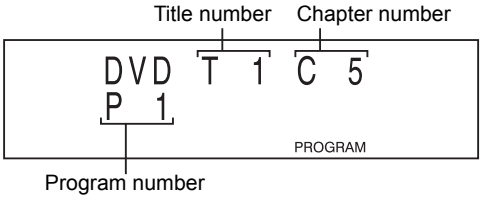
Example: For DVD VIDEO



3 Press the number buttons (1 - 10 or +10) to program chapters/tracks.

■Display for DVD VIDEO

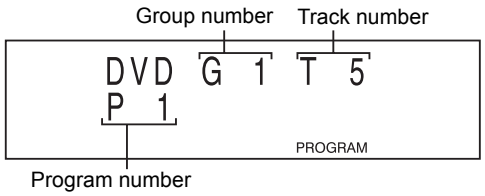
- Select a title number, and then select a chapter number.



(Continued on next page)

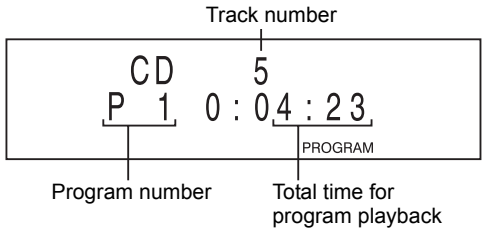
■Display for DVD AUDIO

• Select a group number, and then select a track number.



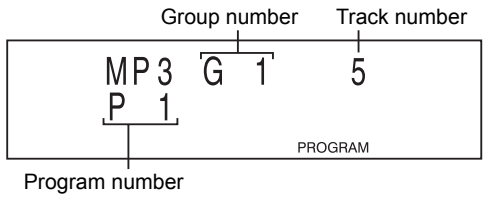
■Display for CD/VCD/SVCD

• Select a track number.



• "VCD" is displayed while a VCD/SVCD is selected.

■Display for MP3/WMA



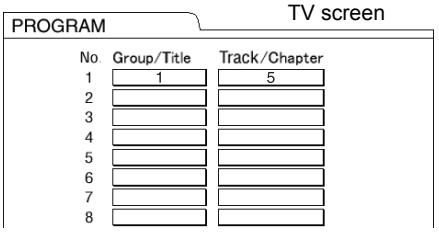
• "WMA" is displayed while a WMA is selected.

NOTE

• When you want to erase the program, press CANCEL while playback is stopped. Programmed tracks are erased one by one from the last program. Holding down CANCEL erases all programmed tracks.

Example: For DVD VIDEO

TV screen



• Refer to "Using the number buttons" (☞ page 16).
• Before selecting a bonus group of a DVD AUDIO, cancel the "BONUS" display as explained in "Playing back the Bonus Group" on page 31.
• When you try to enter more than 99 chapters or tracks, "MEMORY FULL" appears.

4 Press DVD.

NOTE

• For a DVD VIDEO, DVD AUDIO, MP3 or WMA disc, if you press ENTER instead of specifying a track/chapter number in step 3, "ALL" is displayed and all of the tracks/chapters included in the selected group/ title are programmed.

Confirming programmed content

While playback is stopped, press PREVIOUS or NEXT repeatedly.

• During this operation, you can add a track as the last in the program, or erase the last track. (☞ step 3)

Canceling program playback

While playback is stopped, press PLAY/FM MODE repeatedly to display an item other than "PROGRAM".

• This operation does not erase the programmed content.

Erasing the whole program

While playback is stopped, hold down CANCEL.

NOTE

• Ejecting the disc or turning off the main unit also erases the programmed content. This operation also cancels program playback.

Random Playback

DVD VIDEO DVD AUDIO VCD SVCD CD MP3 WMA

You can listen to tracks or chapters in random order.

■ While playback is stopped

1 Press PLAY/FM MODE repeatedly to select "RANDOM".

Example: For CD

• "RANDOM" appears in the TV screen.

2 Press DVD.

NOTE

• Pressing PREVIOUS repeatedly does not return playback to the previous track.
• Each track is played back once.

Canceling random playback

While playback is stopped, press PLAY/FM MODE repeatedly to display an item other than "RANDOM".

NOTE

• Ejecting the disc or turning off the main unit also cancels random playback.

Repeat Playback

DVD VIDEO DVD AUDIO DVD VR VCD SVCD (PBC off) CD MP3 WMA JPEG

■While a disc is being played back

Press REPEAT.

• Each time you press REPEAT, the repeat type will be changed (The repeat type differs depending on the disc type).

Display on the TV screen	Display in the display window on the main unit	Repeat types
TITLE	REPEAT TITLE ALL	Repeats the current title
ALL or REPEAT ALL	REPEAT ALL ALL	Repeats all tracks*1
GROUP*2 or REPEAT GROUP	REPEAT GROUP GROUP*2	Repeats the current group*3
CHAP*4	REPEAT CHAP*4	Repeats the current chapter
TRACK*4 or REPEAT TRACK	REPEAT TRACK*4	Repeats the current track
OFF or no display	REPEAT OFF	Cancels repeat

*1 During the program playback, all programs are repeated.

*2 While the original program of a DVD VR is played back, "PG" is displayed. While the play list of a DVD VR is being played back, "PL" is displayed.

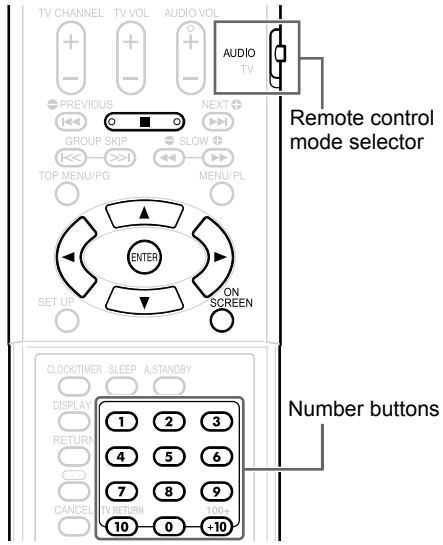
*3 The current title is repeated for a DVD VR.

*4 "STEP" is displayed during program playback or random playback.

NOTE

• You can also operate this function on the menu bar except when using this function with an MP3,WMA or JPEG disc (☞ page 35).
• Repeat playback is automatically canceled for an unplayable MP3,WMA or JPEG discs.
• For details on A-B repeat (repeat playback of a designated part), refer to page 36.

Status Bar and Menu Bar



DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD

You can display the status bar and menu bar on the TV screen, and can control discs with the bars.

CAUTION

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

Using the Status Bar and Menu Bar

■While a disc is being played back

1 Press ON SCREEN twice.

- The above is an example for a DVD VIDEO.

2 Press ◄ ► to select an item you want to operate.

3 Press ENTER.

- You can set the selected function. For the setting items, refer to the following "Function list".
- The currently active function shows blue.
- To cancel the menu bar, press ON SCREEN.

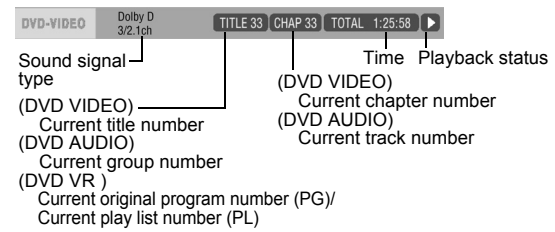
Function list

Press ▲ ▼ to select, and press ENTER to determine unless otherwise noted.

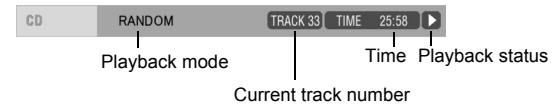
TIME Time display selection	Changes time information displayed in the display window on the main unit and the status bar. Each time ENTER is pressed, the display will be changed. **DVD VIDEO/DVD AUDIO** TOTAL: Elapsed playing time of current title/group T.REM: Remaining time of current title/group TIME : Elapsed playing time of current chapter/track REM : Remaining time of current chapter/track **DVD VR** TOTAL: Elapsed playing time of original program/play list T.REM: Remaining time of original program/play list **CD/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	page 34
Time search	page 36
CHAP. / TRACK Chapter search/ Track search	**DVD VIDEO/VCD/DVD VR** Selects a chapter/track. Press the number buttons to enter the chapter/track number and press ENTER. Examples: 5: 5 24: 2 → 4
Audio	**DVD VIDEO/DVD AUDIO/DVD VR/ VCD/SVCD** page 28
Subtitle	**DVD VIDEO/DVD VR/SVCD/ DVD AUDIO** page 29
1/3 View angle	**DVD VIDEO/DVD AUDIO** page 29
PAGE -/- Page switch	**DVD AUDIO** Switches the still pictures (B.S.P.) recorded on a DVD AUDIO disc. page 32

Information displayed on the status bar

DVD VIDEO/DVD AUDIO/DVD VR (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 23).

Playing Back the Designated Part Repeatedly (A-B Repeat Playback)

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD
(PBC off)

■While a disc is being played back

1 Press ON SCREEN twice.
- The menu bar (☞ page 35) appears.

2 Press ◄ ► to select ↻ OFF.

3 Press ENTER.

4 Press ▲ ▼ to select A–B.

5 Press ENTER at the starting point of the part to be repeated (designating A point).
- The icon on the menu bar will be ↻ A-.

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

"↻ A-B" appears in the display window on the main unit and the part between A and B points is played back repeatedly.

Canceling A-B repeat playback

- To cancel A-B repeat playback:
  - Press ■.
  - Select ↻ A-B and press ENTER twice. (Select ↻ OFF.)

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.

Designate the Time (Time Search)

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD
(PBC off)

■While a disc is being played back

1 Set the remote control mode selector to AUDIO.

2 Press ON SCREEN twice.
- The menu bar appears (☞ page 35).

3 Press ◄ ► to select 🕘➡.

4 Press ENTER.

5 Enter the time using the number buttons (1 - 9, 0).

Example: When you want to play back a disc from the position of (0 hour) 23 minutes 45 seconds, press the buttons in the order:
0 → 2 → 3 → 4 → 5

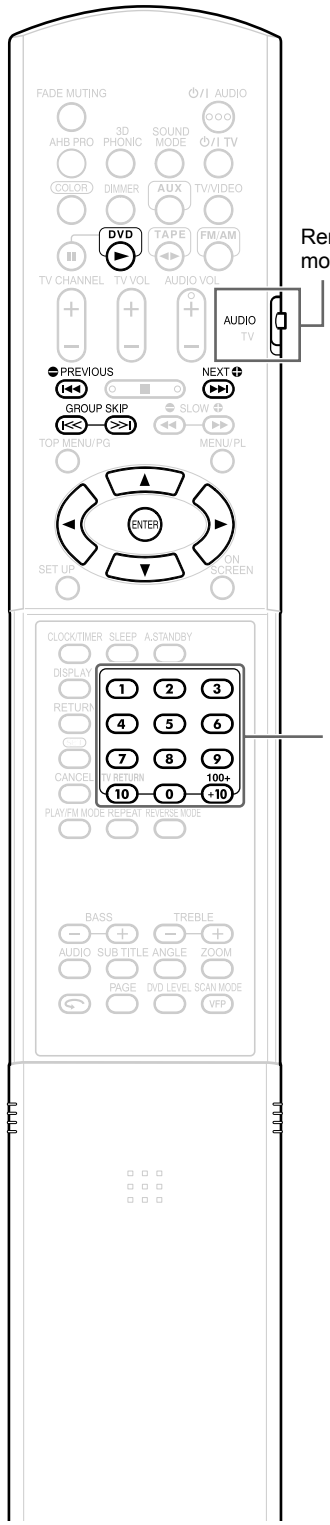
- You can skip entering "minutes" and "seconds".
- If you enter wrong numbers, press ◄ to delete the numbers, and then enter the numbers again.

6 Press ENTER.
- To delete the menu bar, press ON SCREEN.

NOTE

- This operation may not work with some discs.
- This function does not work during program playback or random playback.
- For a CD, this operation can always be carried out.
- Time search for a DVD VIDEO is from the beginning of the title, for a DVD AUDIO is from the beginning of the track being played back. Time search for a VCD, SVCD and a CD is as follows:
  - When the disc is stopped, time search is from the beginning of the disc.
  - When the disc is being played back, time search is within the track currently being played back.

Playing Back MP3/WMA and JPEG Discs



NOTE

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

Playback

MP3 WMA JPEG

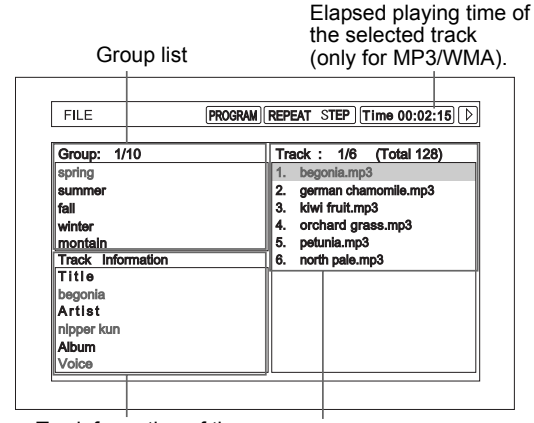
Display of an MP3/WMA disc is described here as an example.
For a JPEG disc, read "track" as "file".

NOTE

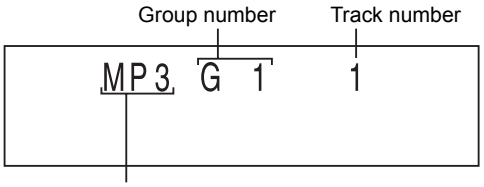
- When playing back a disc containing both MP3/WMA and JPEG files, set one of them to be played (☞ "FILE TYPE" on page 39).

1 Insert a disc.

Example: For MP3
• TV screen



Example: For MP3
• Display window



2 Press ▲ ▼ to select a group.

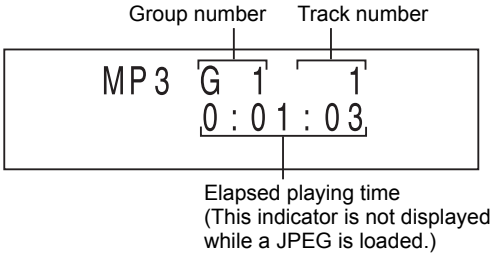
3 Press ▶ to move to the track list.

• Pressing ◀ returns to the group list.

4 Press ▲ ▼ to select a track.

5 Press DVD ▶ or ENTER.

Example: For MP3 (during playback)



- At first, a track title (file name) is scrolled.
- When an MP3 or WMA is loaded, tag information (title/artist/album) is scrolled followed by a track title.
- Only alphanumerical one-byte characters are displayed properly as a track title or tag information.

NOTE

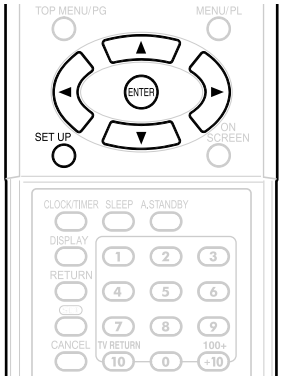
- You can also use GROUP SKIP ◀◀ ▶▶ in step 2.
- You can also use the number buttons in step 4. In this case, steps 3 and 5 are not needed. Refer to "Using the number buttons" (☞ page 16).
- You can also use PREVIOUS ⏮ or NEXT ⏭ in step 4. In this case, step 3 is not needed.

Slide-show playback JPEG

- For a JPEG disc, when you press DVD ▶ in step 5, files are continuously played back from the selected file (slide-show playback). When you press ENTER, only a selected file is played back.
- A file is displayed for approximately 3 seconds in a slide-show playback.
- After all files are played back, the playback is automatically stopped.

Preferences

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA JPEG



You can change the initial settings of this product according to the environment the product is used in.

NOTE

- The top and bottom of the preference screen may not be displayed on a wide TV. Adjust the picture size on the TV.

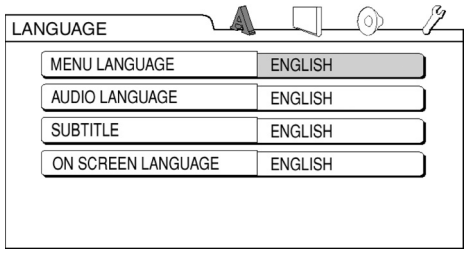
Basic Operations

This section explains basic operation for changing various settings.

■While a disc is stopped or no disc is loaded (while "NO DISC" is displayed)

1 Press SET UP.

- "SETTING" appears in the display window on the main unit and the following screen appears 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 appears.
- For a language code such as "AA", refer to the "Language Codes" (☞ page 41).

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

PICTURE

Items	Contents (: initial setting)
MONITOR TYPE	Select a display method suitable for your TV. **16 : 9 /16 : 9 MULTI (wide TV):** Select this item when the aspect ratio of your wide TV is fixed to 16:9 (when playing back a DVD VIDEO recorded at 4:3, this product automatically adjusts the screen width of the output signal). **4 : 3 LB/4 : 3 MULTI LB (letter box) :** Select this item when the aspect ratio of your TV is conventional 4:3. While viewing a wide screen picture, the black bars appear on the top and bottom of the screen. **4 : 3 PS/4 : 3 MULTI PS (pan scan):** Select this item 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 the pan scan, the picture will be displayed at the letter box ratio.)
PICTURE SOURCE	Select an item suitable to the video source. **AUTO:** The video source type (a video or film) is automatically selected. **FILM:** Select this item when you want to view a film or video recorded with the progressive scan method. **VIDEO:** Select this item when you want to view a normal video.
SCREEN SAVER	Select the screen saver mode between **ON** /**OFF** (screen saver activates when there is no operation made for about 5 minutes since a still picture was last displayed).
FILE TYPE	If a disc includes an **AUDIO** file (MP3/WMA) and a **STILL PICTURE** file (JPEG), select which file is played back.

AUDIO

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

OTHERS

Items	Contents (: initial setting)
RESUME	Select **ON** or **OFF**. (☞ page 25)
ON SCREEN GUIDE	Select whether you display guide icons on the on-screen guide indicating status of a disc/ main unit. (For details on the guide icons, refer to page 24)
AV COMPU LINK MODE	When you want to control JVC TV by using this product, select a mode that matches the terminal from the following. (For more details, refer to "Using AV COMPU LINK" on page 51.) **DVD1 :** Connect to the video-3 input on the TV set or the DVD input on the amplifier. **DVD2:** Connect to the video-1 input of the TV set. **DVD3:** Connect to the video-2 input of the TV set.

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

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

NOTE

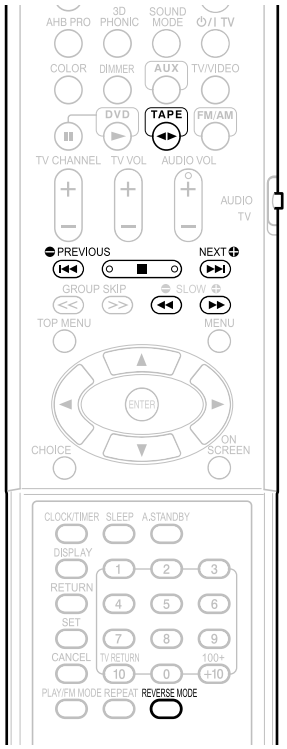
* Copyright-protected DVD AUDIOs do not output signals.
• Among DVD VIDEOs without copyright protection, there may be some DVD VIDEOs that output a 20- or 24-bit signal through the digital audio output terminals.
• Sound sources other than those shown in the table above do not output signals.

Language Codes

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

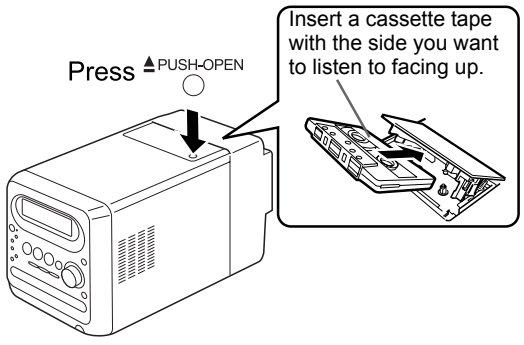
Listening to Cassette Tapes

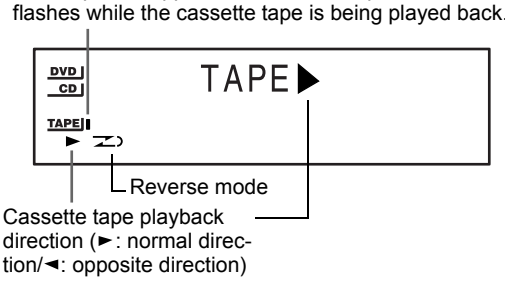
Used frequently



	Operation
Stop	Press ⊙ ■ ⊙.
Fast forward/ Rewind	Press NEXT ⏭ or PREVIOUS ⏮. • When a cassette tape is played back in the normal direction (►), NEXT ⏭ is fast forward and PREVIOUS ⏮ is rewind. • When the cassette tape is played back in the opposite direction (◄), PREVIOUS ⏮ is fast forward and NEXT ⏭ is rewind. • You can perform the same operation by pressing ⏪ or ⏩.

1 Insert a cassette tape.





CAUTION

- Before using a cassette tape, wind up any slack in the cassette tape. (☞ "Handling casette tapes" on page 52)
- Do not use long cassette tapes such as C-120 or C-150. Long cassette tapes are thin and stretch easily, and may become tangled in the inner part of the main unit.
- This product is compatible with playback of TYPE I cassette tapes. Playback of TYPE II or TYPE IV cassette tapes is not recommended, because this product does not meet the specifications for these tapes. The main unit does not produce the proper sound from these cassette tape types.

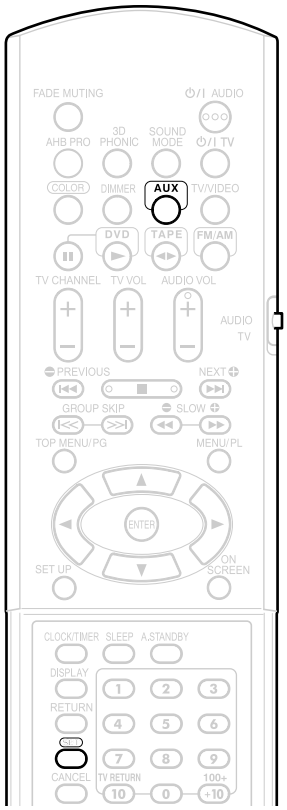
2 Press REVERSE MODE repeatedly to select the reverse mode.

- : For one return playback of both sides.
- : For repeated playback of both sides (Playback continues until playback is stopped.)
- : For one-way playback of either

3 Press TAPE.

- Playback starts.
- When the main unit is turned off, pressing TAPE automatically turns on the main unit.
- Each time you press TAPE, the cassette tape playback direction changes. The initial playback direction after you have inserted a cassette tape is always the normal direction.
- The cassette tape playback direction indicator facing right ► is displayed during normal playback. The indicator facing left ◄ is displayed during reverse playback.

Listening to Other Equipment



1 Press AUX.

2 Start other equipment playback.

- Refer to the operation manual for the connected equipment.

3 Adjust the volume and make other necessary settings.

- For adjusting the volume and making other necessary settings, refer to "Basic Operations" (☞ page 17).

Adjusting the Sound Input Level from Other Equipment

You can adjust the sound input level from the connected equipment.

- While the sound source is selected to AUX, you can adjust the sound input level.

Hold down SET until the input level appears.

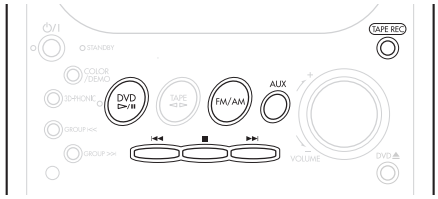
- Each time you hold down SET, the display changes as follows.

LEVEL 1 : For ordinary use. (factory setting)

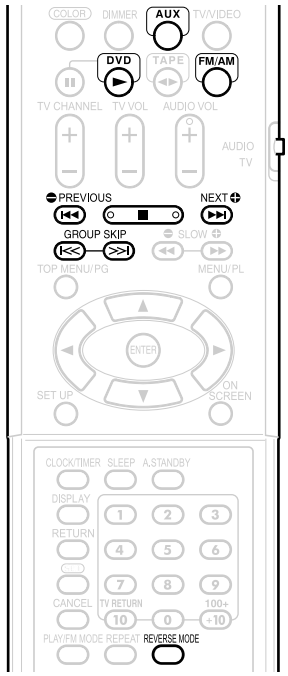
LEVEL 2 : For increasing the input level from the connected equipment.

Recording Sound to Cassette Tapes Used frequently

Main unit



Remote control



NOTE

- The sound input level during recording is automatically adjusted.
- When you record tracks from a disc, a 4-second blank is inserted between tracks in the recording. You can record tracks with no blank time.

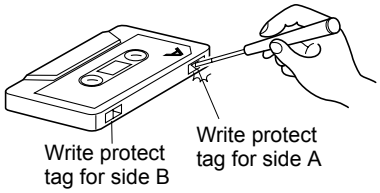
(☞ "Recording with No Blank Time between Tracks" on page 45)

CAUTION

- **It may be unlawful to record or playback copyright material without the consent of the copyright owner.**
- Do not use long cassette tapes such as C-120 or C-150. Long cassette tapes are thin and stretch easily, and may become tangled in the inner part of the main unit.
- Since this product is not compatible with TYPE II and TYPE IV cassette tapes, do not use these types of cassette tapes. This product does not meet the specifications for these tapes, so sound is not properly recorded to these types of cassette tapes. You cannot obtain proper playback sound.

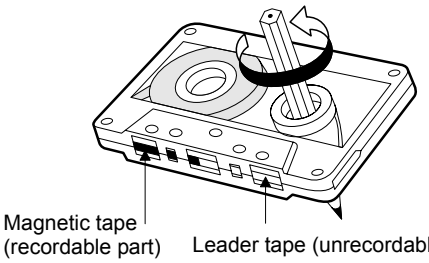
Preventing recorded sound from being erased

- Write protect tags are attached to a cassette tape for preventing the erasing of recorded sound. They enable you to avoid losing important recordings because once you snap off the write protect tags, you cannot record to the cassette tape or erase recorded material.
- When you want to use the cassette tape for recording again, cover the tag holes with adhesive tape.



1 Insert a cassette tape for recording.

- Before inserting the cassette tape, wind the tape past the leader part of the cassette tape.



2 Press REVERSE MODE to select the reverse mode.

- Each time you press REVERSE MODE, the display changes as follows.

: For one-way recording on either side.

: For one return recording on both sides.

: Pressing TAPE REC on the main unit in step 4 sets the reverse mode to automatically.

- You can change the reverse mode during recording.

(Continued on next page)

For the locations of remote control buttons, refer to page 44.

3 Select a sound source for recording.

• Before selecting a sound source, **make sure to stop a disc**.

Sound source	Operation
Disc	Press DVD, and then press ■.
Radio broadcast	Select the radio station whose broadcast you want to record (☞ page 21).
Sound from other equipment (AUX)	Press AUX and prepare playback on the other equipment (☞ page 43).

4 Press ◯ TAPE REC on the main unit.

Example: Display while CD sound is recorded

• When you record from a disc, **all tracks are recorded to the cassette tape**.
• When you want to record sound from other equipment, start playback on the connected equipment.
• When recording finishes, the color of the display window, the disc tray and the circumference of the VOLUME control switches to red to inform you that recording has ended.

Quitting Recording

Press ■.

Recording Only One Track from a Disc

Before proceeding to step 4, play back the track you want to record.

• Pressing ◯ TAPE REC in step 4 returns playback to the beginning of the track and only that track is recorded.
• This one-track recording is not available for DVD VIDEOs or DVD VRs.

Recording the Second or Subsequent Track to the Last Track from a Disc

(For a DVD VIDEO or DVD VR: while the playback is paused)
(For DVD VR: only when recording in original program)

■For a CD/VCD/SVCD/DVD VIDEO

Before proceeding to step 4, select the starting track/chapter number by pressing PREVIOUS ⏮ or NEXT ⏭.

■For a DVD AUDIO/MP3/WMA

Before proceeding to step 4, select the group number by pressing GROUP SKIP ⏪ or GROUP SKIP ⏩, and then select the track number by pressing PREVIOUS ⏮ or NEXT ⏭.

Program Recording from a Disc

Before proceeding to step 4, program the tracks you want to record (☞ page 32).

Recording with No Blank Time between Tracks

Before proceeding to step 4, play back a disc, pause the playback, and then press PREVIOUS ⏮ to return to the beginning of the first track.

Erasing Recorded Sound from a Cassette Tape

Select the sound from other equipment (AUX) in step 3, and then press ◯ TAPE REC.

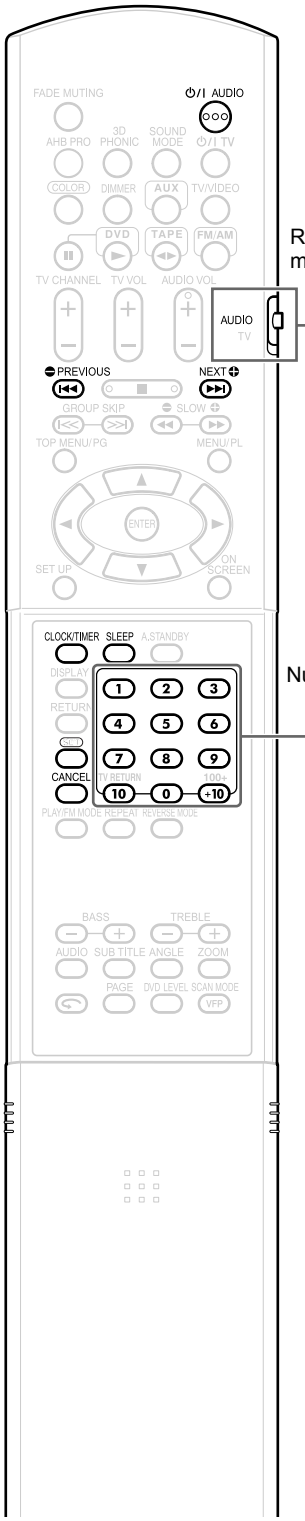
• Do not play back any tracks on the connected equipment.

NOTE

• If the cassette tape reverses direction while a track is being recorded from a disc, that track is recorded again from the beginning on the reverse side of the tape. However, if 12 or less seconds of that track were recorded on the first side of the tape, recording on the reverse side of the tape starts from the beginning of the previous track.

Using the Timers

Set the clock beforehand (☞ page 16).



NOTE

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

Sleep Timer

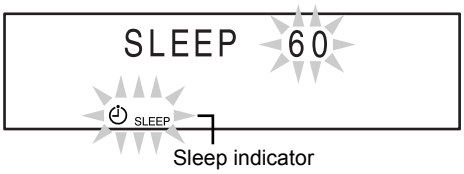
When the specified time passes, the main unit automatically turns off.

Press SLEEP.

- Each time you press SLEEP, the time display (in minutes) changes as follows.

10 → 20 → 30 → 60 → 90 → 150 → 120 → Cancel (Sleep indicator disappears.)

Example: Display while the sleep timer is set to 60 minutes



NOTE

- When you set the sleep timer, the display window automatically dims.
- Before the clock has been set (While "0:00" is flashing), when you press SLEEP, "CLOCK ADJUST!" appears.

Changing the sleep timer setting

Press SLEEP repeatedly to select the time again.

Confirming the sleep timer setting (remaining time)

With the sleep timer activated, press SLEEP once.

Recording Timer

You can use the recording timer function to record FM/AM broadcasts or sound from other equipment to cassette tape.
You can enter up to three timer settings in total for the recording timer and the playback timer (☞ page 48).

NOTE

- Timer settings remain unchanged until the timer is replaced by new setting.

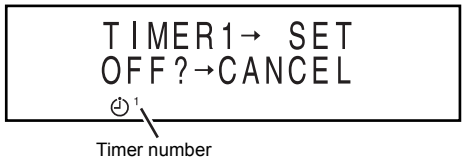
1 Prepare the sound source.

Radio	Preset the radio station whose broadcast you want to record. (☞ page 20)
Other equipment	Follow the operation manual for the equipment.

2 Insert a cassette tape. (☞ page 42)

3 Press CLOCK/TIMER repeatedly to select "TIMER1", "TIMER2" or "TIMER3".

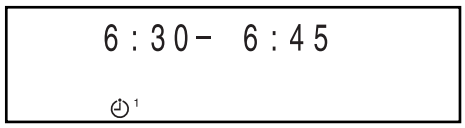
Example: When "TIMER1" is selected



4 Press SET.

5 Press PREVIOUS, NEXT and SET to set the starting time and ending time.

Example:To set the recording time from 6:30 a.m. to 6:45 a.m.



- You can use the number buttons to set the recording time. Refer to "Using the number buttons" (☞ page 16).
- For setting the time, refer to "Setting the Clock", step 2 to 5 (☞ page 16).

Entering the "hour" → SET → Entering the "minute" → SET

6 Press PREVIOUS or NEXT to select "ONCE" or "WEEKLY".

ONCE : The recording timer works once.

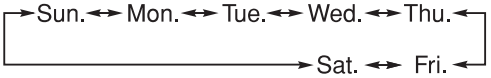
WEEKLY : The recording timer works weekly or every day.

7 Press SET.

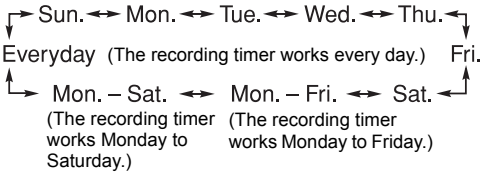
8 Press PREVIOUS or NEXT to select the desired day of the week.

- Each time you press PREVIOUS or NEXT, the display changes as follows.

When "ONCE" is selected.



When "WEEKLY" is selected.



9 Press SET.

10 Press PREVIOUS or NEXT to select "REC TIMER".

- "REC" stands for "Recording".

11 Press SET.

12 Press PREVIOUS or NEXT to select a sound source.

Example: To record an FM broadcast to a cassette tape

- When you want to record sound from other equipment, you cannot use the recording timer function to start playback on any equipment other than this product.

■When you want to record an FM/AM radio broadcast

- Press SET, and then press PREVIOUS, NEXT or the number buttons to select the preset number of the radio station whose broadcast you want to record (☞ page 21). Refer to "Using the number buttons" (☞ page 16).

13 Press SET.

- The settings appear in the display window. Confirm the settings.

14 Press ⏻/I AUDIO to turn off the main unit.

- While the recording timer is functioning, the volume is set to "0" and no sound is produced from the speakers or headphones.
- The recording timer is available only when the main unit is turned off.

NOTE

- During operation, you can return to the previous step by pressing CANCEL. You can quit the recording timer settings by pressing CLOCK/TIMER. The settings are not stored.

Canceling the recording timer

In step 2 on page 47, select the timer number you want to cancel, and then press CANCEL.
Even when you cancel the recording timer, the setting remains stored.

Activating the recording timer again

In step 2 on page 47, select the timer number you want to activate, and press ENTER. Then turn off the main unit.

Confirming the recording timer

In step 2 on page 47, press SET repeatedly. If you want to quit checking the recording timer, press CLOCK/TIMER.

Changing the recording timer

Set the recording timer again from step 1 on page 47.

NOTE

- When you want to activate two or three recording timers, leave a blank time of 2 or more minutes between the ending time of the first recording timer and the starting time of the second recording timer. If the blank time is less than 2 minutes, the second recording timer does not work.
- When the power plug is disconnected or the power is interrupted, the recording timer settings may be lost. If the settings are lost, set the clock and recording timer again.

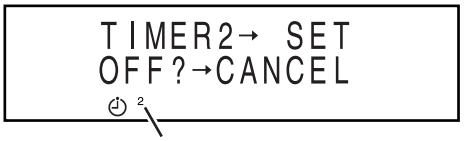
Playback Timer

1 Prepare the sound source you want to play back.

Disc	Make sure that a disc is loaded. (☞ page 22)
Cassette tape	Insert a cassette tape. (☞ page 42)
Radio	Preset the radio station whose broadcast you want to listen to. (☞ page 21)
Other equipment	Follow the operation manual for the equipment.

2 Press CLOCK/TIMER repeatedly to select "TIMER1", "TIMER2" or "TIMER3".

Example: When "TIMER2" is selected

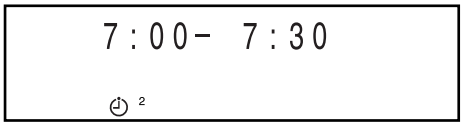


Timer number

3 Press SET.

4 Press PREVIOUS, NEXT and SET to set the starting time and ending time.

Example: When you want to set the playback time from 7:00 a.m. to 7:30 a.m.



- You can use the number buttons to set the playback time. Refer to "Using the number buttons" (☞ page 16).
- For setting the clock, refer to steps 2 to 5 in "Setting the Clock" (☞ page 16).

Entering the "hour" → SET → Entering the "minute" → SET

5 Press PREVIOUS or NEXT to select "ONCE" or "WEEKLY".

ONCE : The playback timer works once.
WEEKLY : The playback timer works weekly or every day.

6 Press SET.

(Continued on next page)

7 Press PREVIOUS or NEXT to select the desired day of the week.

• Each time you press PREVIOUS or NEXT, the display changes as follows.

When "ONCE" is selected.

Sun. ↔ Mon. ↔ Tue. ↔ Wed. ↔ Thu. ↔ Fri. ↔ Sat. ↔ (Sun.)

When "WEEKLY" is selected.

Sun. ↔ Mon. ↔ Tue. ↔ Wed. ↔ Thu. ↔ Fri. ↔ Everyday (The playback timer works every day.) ↔ Mon. – Sat. (The playback timer works Monday to Saturday.) ↔ Mon. – Fri. (The playback timer works Monday to Friday.) ↔ Sat. ↔ (Sun.)

8 Press SET.

9 Press PREVIOUS or NEXT to select "PLAY TIMER".

10 Press SET.

11 Press PREVIOUS or NEXT to select the sound source you want to play back.

Example: When you want to listen to an AM broadcast

- When you want to listen to sound from other equipment, you cannot use the playback timer function to start playback on any equipment other than this product.
- You cannot use the playback timer function together with program playback, repeat playback, random playback, or group playback.

■When you want to listen to an FM/AM radio broadcast

• (With "FM" or "AM" selected) Press SET, and then press PREVIOUS, NEXT or the number buttons to select the preset number of the radio station whose broadcast you want to listen to (☞ page 21). Refer to "Using the number buttons" (☞ page 16).

■When you want to play back a DVD VIDEO, DVD AUDIO or DVD VR

• (With "DVD/CD" selected) Press SET twice. Regardless of the displayed numbers of group (G) and track (T), you can play back a DVD VIDEO, DVD AUDIO, or DVD VR only from the beginning of the disc.

■When you want to play back a CD, VCD or SVCD

• (With "DVD/CD" selected) Press SET twice, and then press PREVIOUS, NEXT or the number buttons to select the number of a track (T) from which you want to start playback. Refer to "Using the number buttons" (☞ page 16). The group number (G) is ignored.

■When you want to specify a track from which you want to start playback on an MP3 or WMA

• (With "DVD/CD" selected) Press SET, press PREVIOUS, NEXT or the number buttons to select the group number (G) to be played back, press SET, and then press PREVIOUS, NEXT or the number buttons to select the track number (T) to be played back. Refer to "Using the number buttons" (☞ page 16).

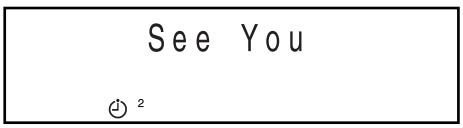
12 Press SET.

13 Press PREVIOUS or NEXT to adjust the playback volume.

14 Press SET.

• The settings appear in the display window.

15 Press ⏻/I AUDIO to turn off the main unit.



• The playback timer is available only when the main unit is off.

NOTE

- During operation, you can return to the previous step by pressing CANCEL. You can quit the playback timer settings by pressing CLOCK/TIMER. The settings are not stored.
- When the playback timer starts, the volume gradually increases to the selected level.

For the locations of remote control buttons, refer to page 46.

Canceling the playback timer function

In step 2 on page 48, select the timer number you want to cancel, and then press CANCEL.
Even when you cancel the playback timer, the setting remains stored.

Activating the playback timer again

In step 2 on page 48, select the timer number you want to activate, and press ENTER. Then turn off the main unit.

Confirming the playback timer

In step 2 on page 48, press SET repeatedly. If you want to quit checking the playback timer,press CLOCK/TIMER.

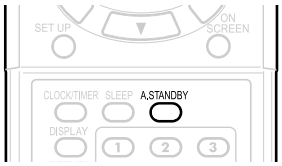
Changing the playback timer

Set the playback timer again from step 1 on page 48.

NOTE

- When you want to activate two or three playback timers, leave a blank time of 2 or more minutes between the ending time of the first playback timer and the starting time of the second playback timer. If the blank time is less than 2 minutes, the second playback timer does not work.
- When the power plug is disconnected or the power is interrupted, the playback timer settings may be lost. If the settings are lost, set the clock and playback timer again.
- When you operate the playback timer with a DVD VIDEO, DVD AUDIO or VCD, sound and video may not be played back automatically. A DVD VIDEO, DVD AUDIO or VCD may contain a disc menu that appears first when played back. Sound or video will not come out before you select the desired item to be played back on the disc menu.

Auto Standby

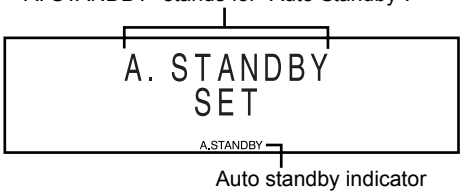


If no sound is produced for 3 minutes when the disc or cassette tape is selected as a sound source, the main unit automatically turns off.

■When the disc or cassette tape is selected as a sound source

Press A.STANDBY.

"A. STANDBY" stands for "Auto Standby".



Auto standby indicator

Auto standby performance

When playback or recording finishes, auto standby starts the countdown (the "A. STANDBY" indicator flashes). When no operation is carried out within 3 minutes, the main unit automatically turns off.
When you start playback or recording within 3 minutes, auto standby starts the countdown again after playback or recording finishes.
When an operation other than playback and recording finishes and no operation is carried out within 3 minutes, the main unit automatically turns off.
"A. STANDBY OFF" indicator starts to flash 20 seconds before the main unit is to turn off.

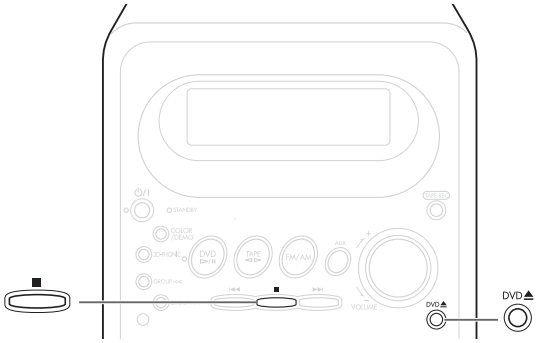
Canceling auto standby

Press A.STANDBY once again.

NOTE

- Leaving the volume at "0" is not the same as producing no sound, and therefore does not start the auto standby function.

Disc Ejection Lock



You can prohibit ejection of a disc.

■When the main unit is turned off

While holding down ■, press DVD⏏ on the main unit.

LOCKED

Even if you press DVD⏏, "LOCKED" appears in the display window and the disc does not come out. In addition, when you press DVD⏏, while the main unit is turned off, "LOCKED" appears in the display window and the main unit does not turn on.

Canceling the disc ejection lock

■When the main unit is turned off

Carry out the operation explained above once again.

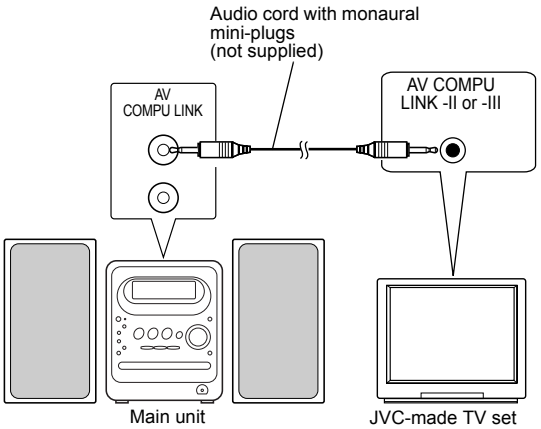
UNLOCKED

Using AV COMPU LINK

The JVC AV COMPU LINK system allows you to enjoy video or audio with the simplest operation. If your JVC TV set supports the JVC AV COMPU LINK system, simply starting the main unit will automatically make all necessary settings on the TV to allow you to enjoy the playback.

Connection and Setting

- Carefully read manuals of equipment to be connected.



Set the main unit's AV COMPU LINK MODE setting (☞ page 40) as follows.

- When connecting to the VIDEO-1 input terminal of the TV: DVD 2
- When connecting to the VIDEO-2 input terminal of the TV: DVD 3
- When connecting to the VIDEO-3 input terminal of the TV: DVD 1

Operations

You can enjoy sound or video simply by starting playback on the main unit. You do not have to select the input setting for the TV, or turn on the TV beforehand.

1 Turn on the main power to the TV.

2 Insert a disc into the main unit.

3 Press DVD on the main unit.

The following operation is performed automatically.

- The TV set will be turned on.
- TV input will be switched to external input (Video 1, 2 or 3) of the main unit.

When you turn off the main unit, power to the TV is not turned off.

Handling Discs/Cassette Tapes

Handling discs

- Do not put adhesive tape or stickers, or write on a disc.
- Do not bend a disc.
- Be sure not to use heart/flower shaped discs or other irregularly shaped discs. The use of such discs damages the main unit.

Cleaning discs

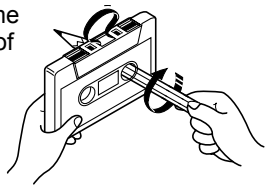
Wipe a disc from the center outward with a soft cloth.

Scratches concentrated on a certain part cause sound dropout.

- Be sure not to use thinners, benzenes, cleaners for analog records, or other chemical agents.

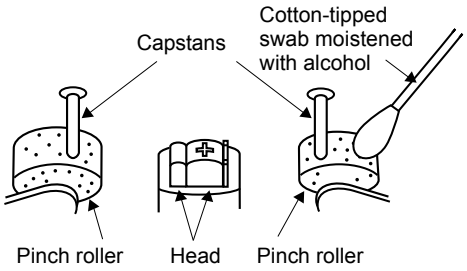
Handling cassette tapes

- A slack tape may become caught in the inner part of the main unit and damage the main unit. Before using a cassette tape, wind up any slack in the cassette tape as shown on the right. Do not pull out the tape or touch the tape's surface.



Cleaning the tape deck head

- Clean the head, pinch rollers and capstans approximately every 10 hours of playback time before the volume falls or sound quality deteriorates



Cleaning the main unit cabinet

- Gently dust the cabinet surface with a soft dry cloth. When the cabinet is very dirty, dampen the cloth with a neutral detergent diluted with water, wring out the cloth well, and then wipe the cabinet with the dampened cloth followed by a soft dry cloth.
- Do not wipe the cabinet with thinners or benzenes. Wiping it with these agents may cause discoloration of the cabinet or removal of the paint. Do not spray insecticides or other highly volatile agents onto the cabinet. Do not leave pieces of rubber or plastic on the cabinet for a long period.

Disc Messages

Disc message	Meaning	Possible solution
CANNOT PLAY	You are trying to play back an unplayable disc or a disc that has many scratches.	Replace the disc.
NO DISC	No disc is loaded.	–
NO AUDIO	The disc may be an illegally copied disc.	You cannot listen to the disc.
LR ONLY	You are playing back a multi-channel track for which down-mix is prohibited.	This is normal operation.

Troubleshooting

Problem	Possible cause	Possible solution	Reference page
No sound/video is produced.	Improper connection.	Connect all cords properly as in "Connections".	11 - 15
	Headphones are connected.	Disconnect the headphone plug.	8
The clock display is flashing.	A power failure occured or the power plug was disconnected.	Reset the clock.	16
Disc playback does not start.	The disc is upside down.	Place the disc on the disc tray with the letter-printed surface facing up.	22
	Moisture has condensed on the lens.	Leave the main unit turned on, wait for approximately 1 or 2 hours, and then operate the main unit.	3
A certain point cannot be played back properly.	The disc is scratched or dirty.	Clean or replace the disc.	52
The volume of cassette tape playback is low.	The head or capstans are dirty.	Clean the head or capstans.	52
You cannot record a cassette tape.	The cassette tape is write-protected.	Cancel the write-protection.	44
A radio broadcast cannot be received.	No antenna is connected.	Connect an antenna.	11
A whirring noise is produced.	The main unit is located close to a TV, computer, or other electric appliance.	Place the main unit away from a TV, computer, or other electric appliance.	3
The timer does not work.	You did not set the clock.	Set the clock.	16
	The main unit is turned on.	After setting the timer, turn off the main unit.	48, 49
You cannot operate the remote control.	The remote control batteries are running low.	Replace the batteries with new batteries.	9
You cannot operate the main unit with the number buttons on the remote control.	The remote control mode selector on the remote control is set to TV.	Set the remote control mode selector to AUDIO.	16
A noise comes from the rear of the main unit.	The internal cooling fan produces a noise as it rotates.	The noise is not a malfunction. This is to prevent excessive heat.	13, 17

● **If this product does not function properly even after you have implemented the possible solutions given above**

Many functions of this product are implemented by microcomputers. If malfunction is caused by thunder or static electricity, or the main unit does not function properly even when you press a button, disconnect the power plug from the AC outlet, wait for a while, and then connect this product again. Then reset the clock**.**

Specifications

■DVD receiver (CA-UXQD90S)

Output power	20 W × 2 (10% THD/4 Ω)
Input terminal	AUX × 1,
Output terminals	Speaker × 1, 20 W/4 Ω Impedance 4 Ω - 16 Ω Headphone (×1), 25 mW/32 Ω Impedance 16 Ω - 1 kΩ DVD/CD optical output × 1 AV COMPU LINK × 2 (ϕ 3.5)
Tuner Frequency	FM: 87.50 MHz - 108.00 MHz AM: 531 kHz - 1 710 kHz (9 kHz spacing) 530 kHz - 1 710 kHz (10 kHz spacing)
Power requirement	AC 110 / 127 / 230-240 V∿, 50/60 Hz
Power consumption	55 W (at operation) 3.0 W (on standby)
Dimensions	165 mm (W) × 200 mm (H) × 350 mm (D)
Mass (approx.)	4.6 kg

■Speaker (SP-UXQD90S)

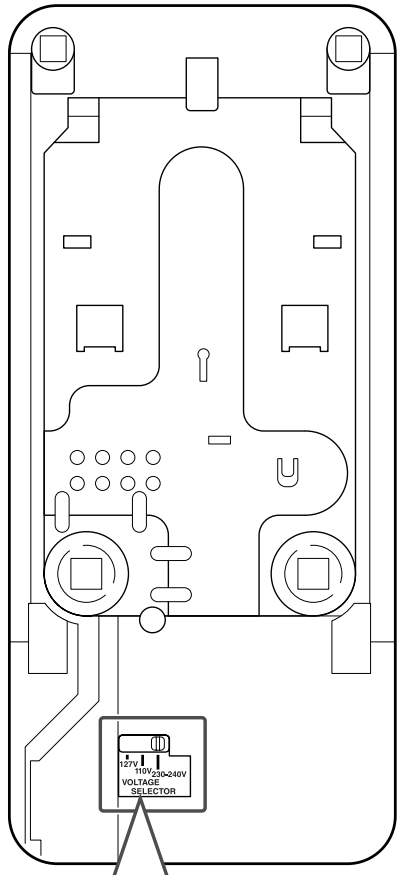
System	3-way bass reflex type, Magnetically shielded type
Speakers	Woofer: 10 cm cone speaker × 1 Midrange: 4 cm cone speaker × 1 Tweeter: 1.5 cm dome speaker × 1
Power handling capacity	20 W
Impedance	4 Ω
Frequency range	55 Hz - 40 kHz
Sound pressure level	85 dB/W•m
Dimensions	140 mm (W) × 231 mm (H) × 207.5 mm (D)
Mass (approx.)	2.3 kg (1 unit)

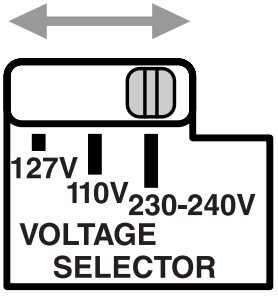
■Micro component DVD system (UX-QD90S)

Dimensions	445 mm (W) × 231 mm (H) × 350 mm (D)
Mass (approx.)	9.2 kg

Mains (AC) Line Instruction
主 (AC) 电路说明

Bottom view of the main unit
本机仰视图





CAUTION for mains (AC) line
BEFORE PLUGGING IN, do check that your mains (AC) line voltage corresponds with the position of the voltage selector switch provided on the bottom of this equipment and, if different, reset the voltage selector switch, to prevent from a damage or risk of fire/electric shock.

有关主 (AC) 电源线路的重要事项
接插电源以前，请务必检查当地的主 (AC) 电源线路电压是否和位于本机底部的电压选择开关设定的位置一致。如果不一致，请重新设定电压选择开关使其符合当地电压，以免损坏机器或引起火灾 / 触电的危险。

JVC

EN, CS

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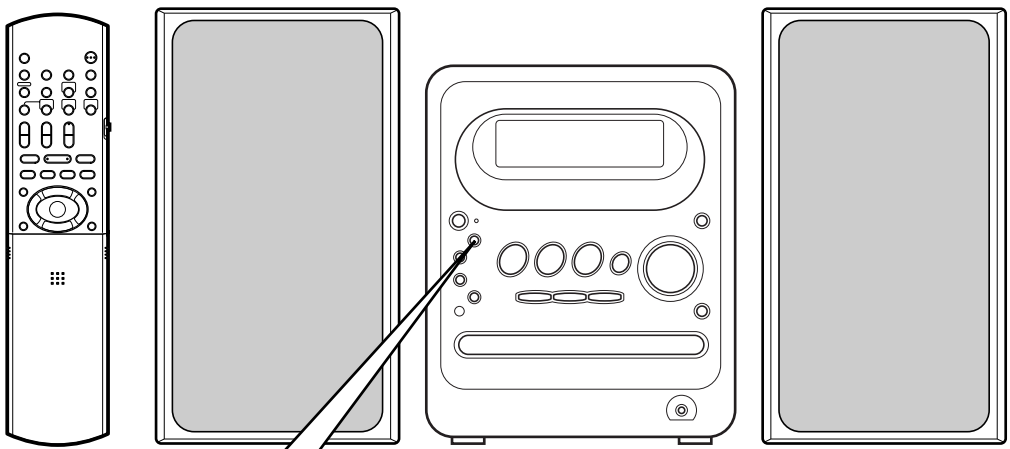
English

JVC

MICRO COMPONENT DVD SYSTEM

UX-QD90S

Consists of CA-UXQD90S and SP-UXQD90S



For turning off the demonstration display, refer to page 15.

DVD AUDIO/VIDEO™ DOLBY DIGITAL dts 2.0+DIGITAL OUT COMPACT disc SUPER VIDEO

MP3 PLAYBACK AV COMPU LINK Digital Direct Progressive Scan 3D-PHONIC

INSTRUCTIONS

LVT1368-005A
[UG,UX]

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 — ⏻/I button!
Disconnect the mains plug to shut the power off completely (the STANDBY lamp goes off).
The ⏻/I button in any position does not disconnect the mains line.
- When the system is on standby, the STANDBY lamp lights red.
- When the system is turned on, the STANDBY lamp lights green.

The power can be remote controlled.

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

IMPORTANT FOR LASER PRODUCTS

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

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

CAUTION — Proper Ventilation

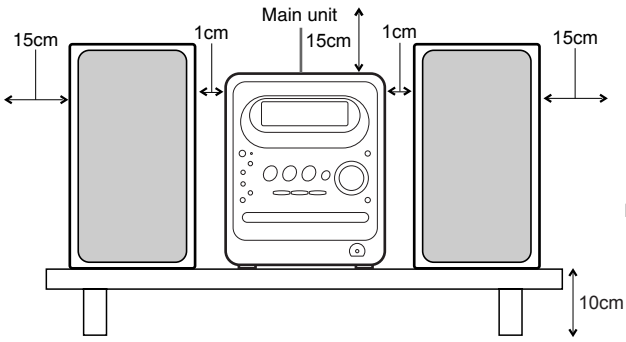
To avoid risk of electric shock and fire and to protect from damage, locate the apparatus as follows:

Top/Front/Back/Sides: No obstructions should be placed in the areas shown by the dimensions below.

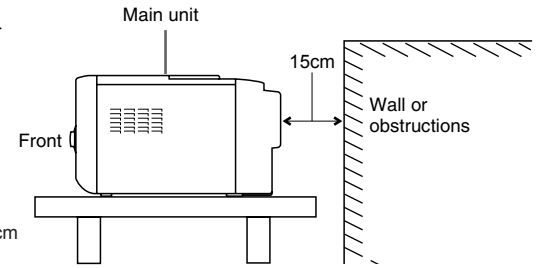
Bottom: Place on the level surface. Maintain adequate air path for ventilation by placing on a stand with a height of 10 cm or more.

In addition, maintain the best possible air circulation.

Front view



Side view



[European Union only]

Table of Contents

Used frequently marks refer to operation used frequently. You can quickly learn the general usage of this product by reading those parts only.

Introduction

Notes on Operation 3
- Suitable Locations for the Main Unit 3
- Condensation 3
- Cleaning the Main Unit 3
- Listener's Etiquette 3
- Playable DVD/CD Types 4
- Disc Structure 5

Special Cautions 6
- Notes on Handling 6
- Supplied Accessories 6

Voltage Adjustment 7

Preparation

Part Description 8

Remote Control 9
- Inserting Batteries into the Remote Control 9
- Operating the TV Using the Remote Control 10

Connections 11
- Connecting the Antennas 11
- Connecting the Speakers 13
- Connecting Other Equipment 14
- Connecting with a TV 14
- When a Clearer Picture Is Desired 15
- Connecting the Power Plug 15
- Disabling the Demonstration Display 15

Basic Operations

Basic Operations 16
- Setting the Clock 16
- Turning On/Off the Main Unit ..... Used frequently 17
- Adjusting the Volume ..... Used frequently 17
- Adjusting the Sound Quality 17
- Temporarily Turning Off the Sound (FADE MUTING) 18
- Emphasizing Heavy Bass Sound (AHB PRO) 18
- Changing the Display Brightness (DIMMER) 18
- Changing the Color Patterns 18
- Selecting the Color System and the Video Processing System (SCAN MODE) 19

Listening to Radio Broadcasts

Listening to Radio Broadcasts ..... Used frequently 20
- Setting the AM Tuner Spacing 20
- Selecting a Radio Station 21
- Storing Radio Stations (Preset) 21
- Tuning In to a Preset Radio Station 21

Listening to Discs

Basic Operations of the DVD Player 22
- Playback ..... Used frequently 22
- Playing Back from a Position 10 Seconds Before (One Touch Replay) 24
- Stopping Playback ..... Used frequently 25
- Resuming Playback (RESUME) 25
- Pausing Playback 25
- Advancing Picture Frame by Frame 25
- Fast Reverse/Fast Forward Search ..... Used frequently 25
- Slow Motion Playback 26
- Skipping to the Beginning of a Track ..... Used frequently 26
- Skipping to the Beginning of a Track with the Number Buttons 26
- Selecting a Track from the Menu Screen 27

Convenient Functions of the DVD Player 28
- Selecting the Audio Language ..... Used frequently 28
- Selecting the Subtitle Language 29
- Selecting a View Angle 29
- Magnifying the Picture (ZOOM) 29
- Adjusting the Picture Quality (VFP) 30
- Creating Realistic Sound (3D PHONIC) 30
- Adjusting Playback Level (DVD LEVEL) 31
- Playing Back the Bonus Group 31
- Browsable Still Pictures (B.S.P.) 32
- Playing Back the Disc in the Desired Order (Program Playback) 32
- Random Playback 34
- Repeat Playback 34

Status Bar and Menu Bar 35
- Using the Status Bar and Menu Bar 35
- Playing Back the Designated Part Repeatedly (A-B Repeat Playback) 36
- Designate the Time (Time Search) 36

Playing Back MP3/WMA and JPEG Discs 37
Playback 37
Preferences 39
Basic Operations 39
LANGUAGE 39
PICTURE 39
AUDIO 40
OTHERS 40
Language Codes 41

Listening to Cassette Tapes

Listening to Cassette Tapes ..... Used frequently 42

Listening to Other Equipment

Listening to Other Equipment 43
Adjusting the Sound Input Level from Other Equipment 43

Recording Sound

Recording Sound to Cassette Tapes ..... Used frequently 44
Quitting Recording 45
Recording Only One Track from a Disc 45
Recording the Second or Subsequent Track to the Last Track from a Disc 45
Program Recording from a Disc 45
Recording with No Blank Time between Tracks 45
Erasing Recorded Sound from a Cassette Tape 45

Convenient Functions

Using the Timers 46
Sleep Timer 46
Recording Timer 47
Playback Timer 48
Auto Standby 50
Disc Ejection Lock 51
Using AV COMPU LINK 51
Connection and Setting 51
Operations 51

Reference

Handling Discs/Cassette Tapes 52
Disc Messages 53
Troubleshooting 53
Specifications 54

Notes on Operation

Suitable Locations for the Main Unit

To minimize the need for servicing and maintain the high quality of this product, do not place the main unit in the following locations:

- In a position subject to high humidity or considerable dust
- On an uneven or unstable surface
- Near a heat source
- Near a computer, fluorescent light or other electric appliance
- In a small room with insufficient ventilation
- In a position exposed to direct sunlight
- In a position exposed to excessive cold
- In a position exposed to strong vibration
- Near a TV, other amplifier, or tuner
- Near a magnetic source

CAUTION

- The operating temperature of this product is 5°C to 35°C. Use in temperatures outside this range may cause a malfunction or damage the product.

Condensation

Under the following conditions, you may not be able to operate this product properly due to condensation formed on the lens of the main unit:

- When you have just started an air conditioner to warm your room
- When you have placed the main unit at an area with high humidity
- When you have moved the main unit from a cold place to a warm place

When condensation forms, leave the main unit turned on, wait for approximately 1 or 2 hours, and then operate the main unit.

Cleaning the Main Unit

When the operation panel becomes dirty, dust it with a soft dry cloth. When the operation panel is very dirty, wipe it with a cloth dampened with a small amount of a neutral detergent, and then wipe it with a soft dry cloth.

CAUTION

- Do not wipe the operation panel with thinners, benzenes or other chemical agents. Do not spray insecticides onto the operation panel. These may cause discoloration and damage to the surface.

Listener's Etiquette

When using headphones, keep the volume at a moderate level so as not to over-stimulate your ears.

■When enjoying sound from the speakers, adjust the volume to a suitable level to avoid disturbing your neighbors.
Even low-volume sound carries a long way, especially at night. Show consideration to your neighbors by closing windows or using headphones.

- Manufactured under license from Dolby Laboratories. "Dolby", "MLP Lossless", and the double-D symbol are trademarks of Dolby Laboratories.
- "DTS" and "DTS 2.0+DIGITAL OUT" are registered trademarks of Digital Theater Systems, Inc.
- This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.
- DVD Logo is a registered trademark of DVD Format/Logo Licensing Corporation.

Playable DVD/CD Types

	CD-R/ CD-RW	DVD-R	DVD-RW
Audio CD	Playable	—	—
VCD/SVCD	Playable	—	—
MP3/WMA/JPEG	Playable	Playable[1]	Playable[1]
DVD Video	—	Playable	Playable
DVD VR	—	—	Playable[2]

- Discs should be finalized before being played back.

1 Among MP3/WMA/JPEG discs, only discs formatted with ISO 9660 (known as UDF Bridge) are playable.

2 Only when a DVD-RW is compatible with CPRM (Content Protection for Recordable Media), DVD VR format can be used.

It is possible to play back finalized +R/+RW (DVD Video Format only) discs. "DVD" lights on the front display panel when a +R/+RW disc is loaded.

Some discs may not be played back because of their disc characteristics, recording conditions, or damage or stains on them.

Only sounds can be played back from the following discs:

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

Region code of DVD VIDEO
DVD players and DVD VIDEOs have their own region code numbers. This product can only play back a DVD VIDEO recorded with the region code number "2" (or any region code number that includes "2") or "ALL".

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 product.

Discs you can play back:

Disc Type	Mark (Logo)
DVD VIDEO	
DVD AUDIO	
VCD	
SVCD	
CD	
CD-R	
CD-RW	

About CD-Rs/CD-RWs and DVD-Rs/DVD-RWs

- Playback is impossible in some cases due to the disc characteristics, recording condition, scratches or dirt on the disc, or dirt or condensation on the lens.
- Before using a disc, carefully read the cautions regarding the disc.
- This product does not support playback or CD text display of sound files such as MP3s.
- To play back a CD-RW or DVD-RW on this product, erase all tracks if the CD-RW or DVD-RW was recorded in a format other than the format described on the left. Using the CD-RW or DVD-RW without erasing all tracks may result in damage to the speakers or other parts caused by sudden loud volume.

Discs that cannot be played back

- The following discs cannot be played back: DVD-ROM, CD-ROM, DVD-RAM, 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.
- JVC do not guarantee the operation and sound quality of discs not authorized by CD-DA, which is a CD specification.
  Before playback, confirm that the disc complies with this CD specification by checking the marks and reading notes printed on the package.

About MP3/WMA/JPEG discs

Playable MP3/WMA/JPEG discs and files

- CDs recorded in the ISO 9660 format are playable (except CDs recorded in the "packet write" format (UDF format)).
- CDs recorded in the multi-session format are also playable.
- Files with an extension of ".mp3", ".wma", ".jpg" or ".jpeg" (extensions with uppercase and lowercase letters mixed are also acceptable) are playable.
- This product cannot play back DVDs recorded in multi-session or multi-border format.

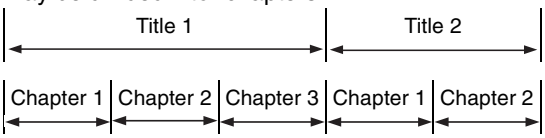
Notes on MP3/WMA/JPEG discs and files

- A disc may not be played back, 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/WMA/JPEG file, the track/file name will not be displayed correctly.
- The order of tracks/groups displayed on the MP3/WMA Control screen, and the order of files/groups displayed on the JPEG Control screen may be different from that of files/folders displayed on a computer monitor screen.
- In the case of MP3/WMA discs, since groups/tracks are played back in alphabetical order, a commercially available MP3/WMA disc may be played back in an order different from that indicated on the label attached to the disc.
- Playing back an MP3 file including a still image may take a long time. The elapsed time is not displayed until playing back starts. If playing back starts, the elapsed time may not be displayed correctly.
- For an MP3 file, a disc with a sampling frequency of 44.1 kHz and transmission rate of 128 kbps is recommended.
- This product is not compatible with MP3i or MP3PRO.
- This product can play back a baseline JPEG file, excluding monochromatic JPEG files.
- This product can play back JPEG data taken with a digital camera conforming to the DCF (Design Rule for Camera File System) standard (when a function such as the automatic image rotation function of a digital camera is applied, the data no longer complies with 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 product cannot play back animations such as MOTION JPEG, still pictures (TIFF etc.) other than JPEG, or image data with sound.
- The resolution of 640 x 480 pixels is recommended for JPEG files. If a file has been recorded at a resolution of more than 640 x 480 pixels, display may take a long time. An image with a resolution of more than 8 192 x 7 680 pixels cannot be displayed.

Disc Structure

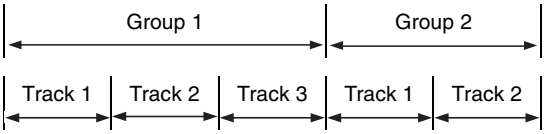
DVD VIDEO

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



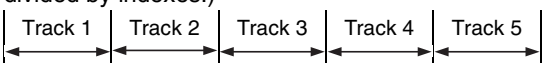
DVD AUDIO

A DVD AUDIO consists of "groups" and each group may be divided into "tracks".
Some discs include a "bonus group" that requires a password for playing (☞ page 31).



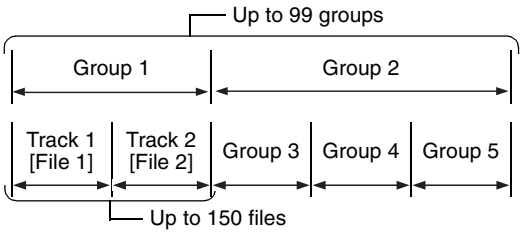
VCD/SVCD/CD

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



MP3/WMA [JPEG] discs

On an MP3/WMA [JPEG] disc, each still picture (material) is recorded as a track [file]. Tracks [Files] are usually grouped into a folder. Folders can also include other folders, creating hierarchical folder layers.
This unit simplifies the hierarchical construction of a disc and manages folders by "groups".



This product can recognize up to 4 000 tracks [files] in a disc. Also, the product can recognize up to 150 tracks [files] per group and up to 99 groups in a disc. Since the unit ignores tracks [files] with numbers exceeding 150 and groups with numbers exceeding 99, these cannot be played back.

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

Special Cautions

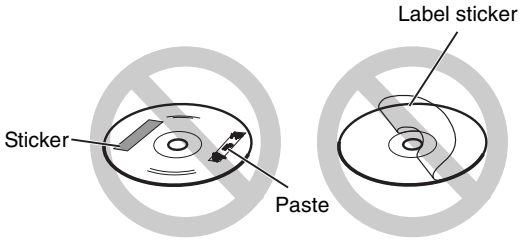
Notes on Handling

■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 CDs. Recording of copyrighted material may infringe copyright laws.

■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 equipment.

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)
Video cord (1)

- 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.

Voltage Adjustment

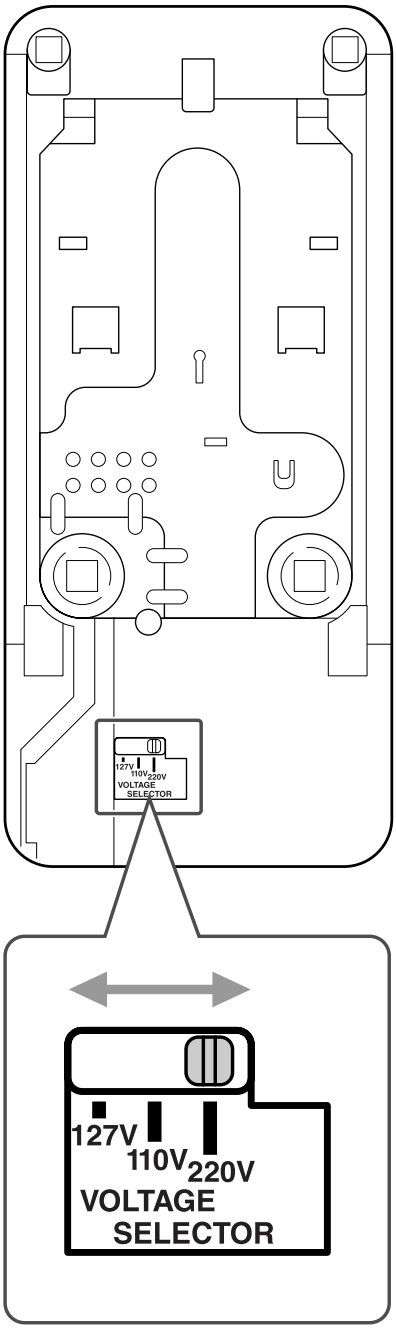
Before connecting the power plug, make sure that the voltage selector is set to the correct voltage for your area.

CAUTION

- DO NOT plug in before setting the voltage selector on the bottom of the main unit and all connections are complete.

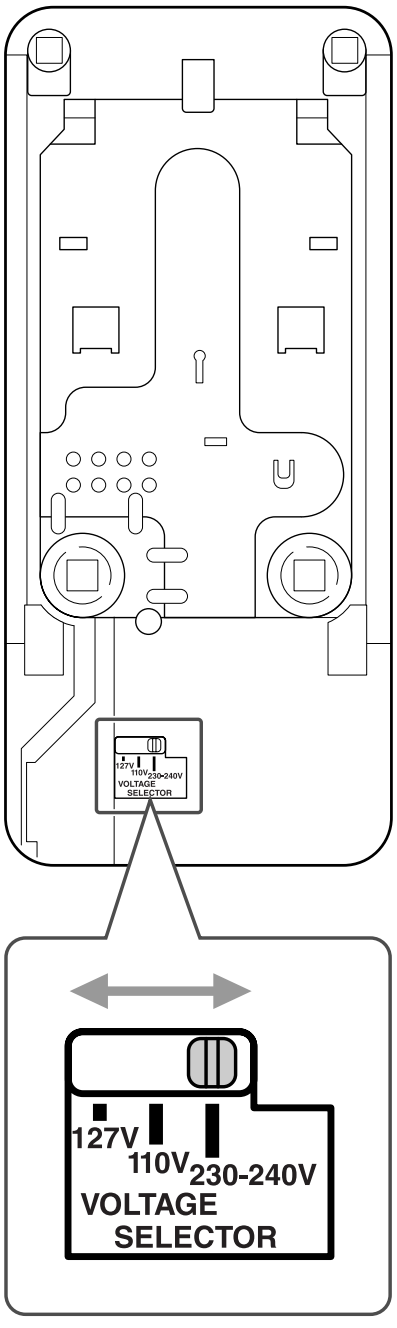
Bottom view of the main unit

• For Saudi Arabia



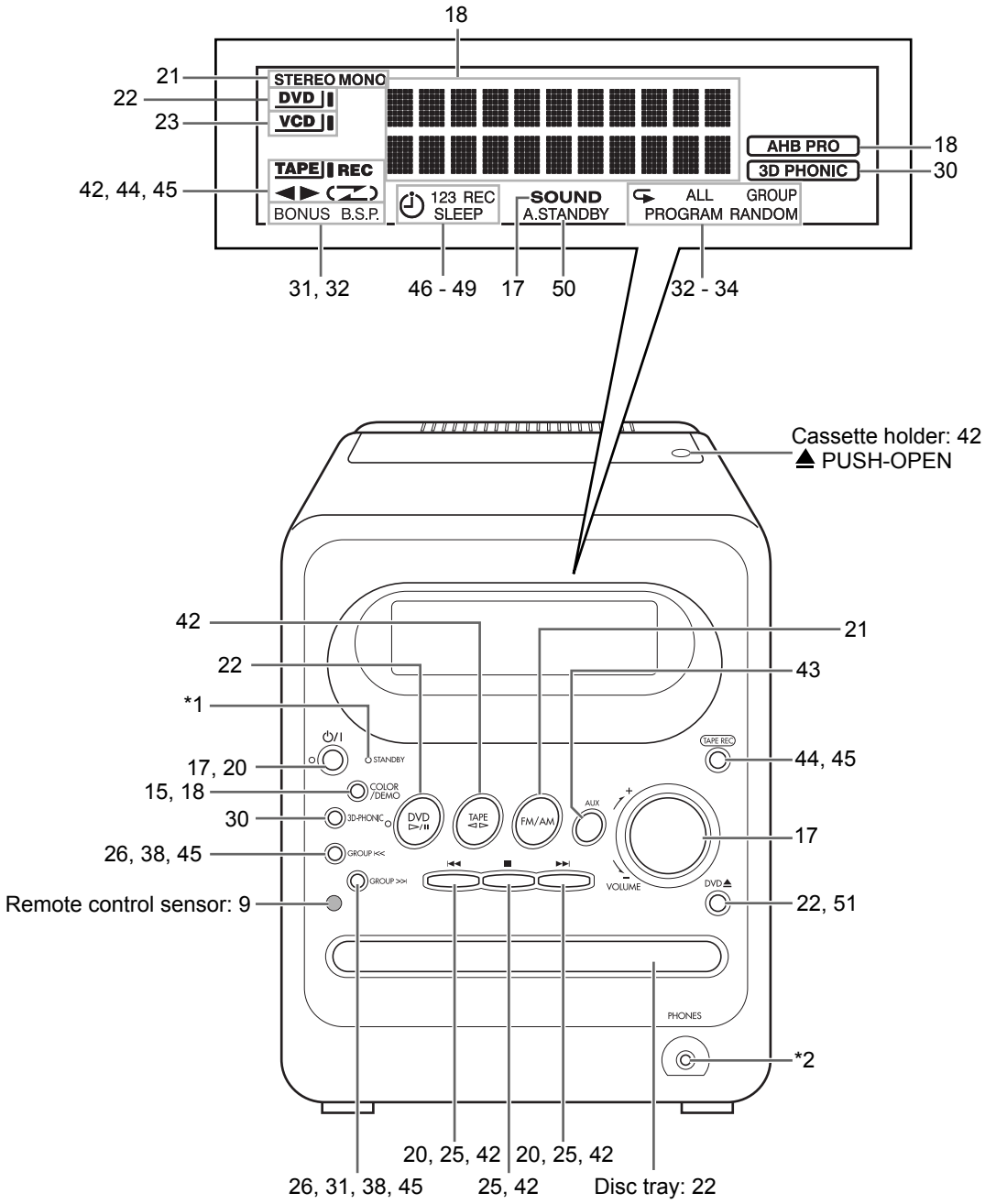
Bottom view of the main unit

• For other countries



Part Description

The numbers refer to the pages in which the parts are explained.

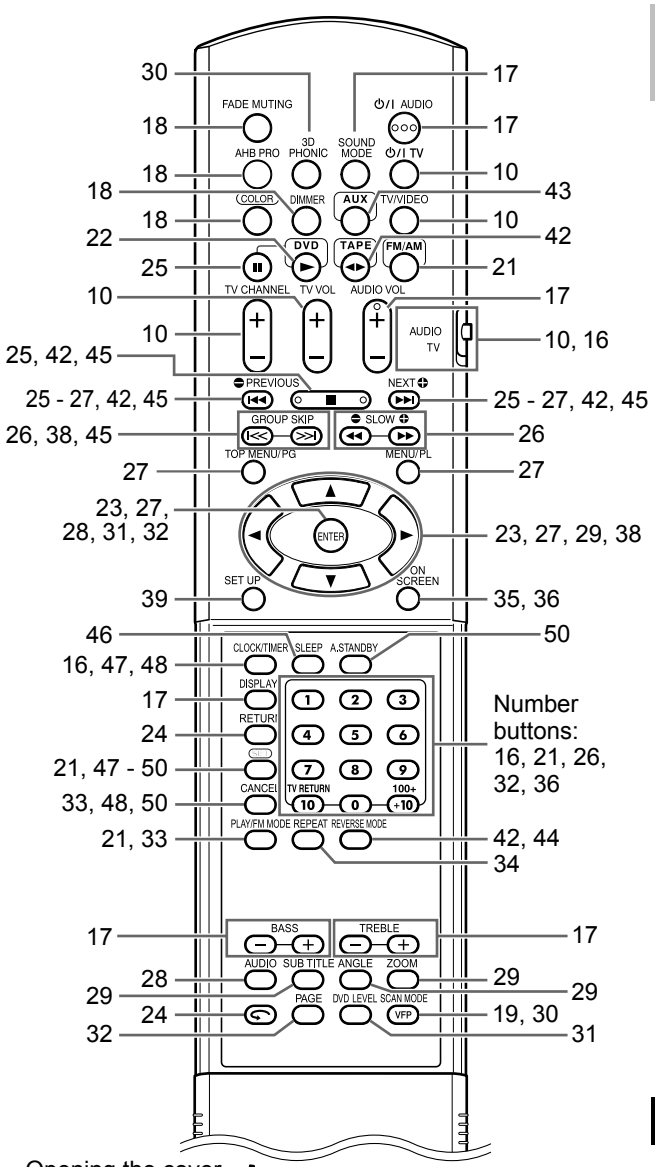


*1 When the power is turned off, the STANDBY indicator lights up red. When the power is turned on, the STANDBY indicator lights up green.

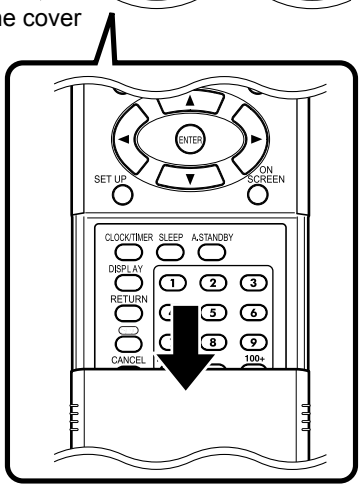
*2 This terminal is for connecting a pair of headphones equipped with a stereo mini plug (commercially available). While the headphones are connected, the speakers do not produce any sound.

Remote Control

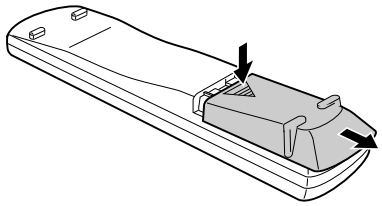
The numbers refer to the pages in which the parts are explained.

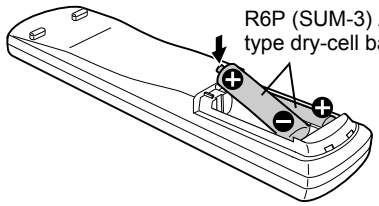


Opening the cover

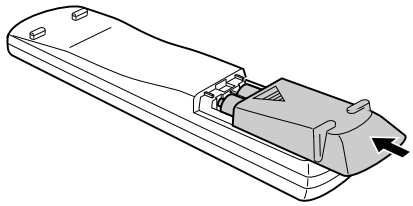


Inserting Batteries into the Remote Control





R6P (SUM-3) /AA (15F) type dry-cell batteries (2)



CAUTION

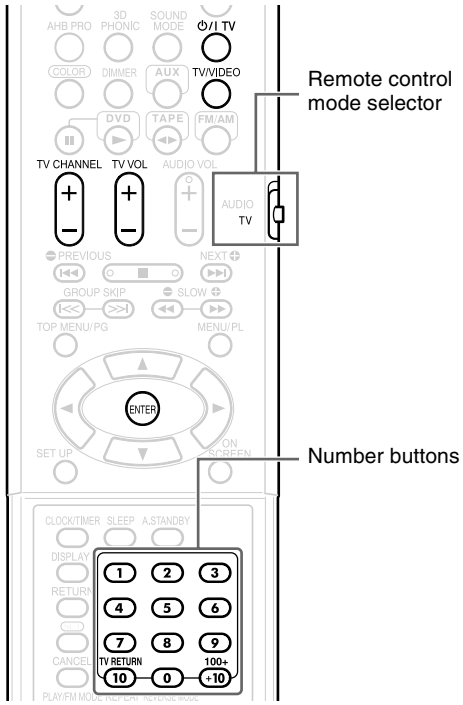
- Do not use a used battery and a new battery together.
- Do not use different types of batteries at the same time.
- Take out the batteries if the remote control is not to be used for a long time. Otherwise it may cause a leakage.

Remote control operation

- When operating the remote control, point it at the front panel of the main unit.
- The effective distance between the remote control and the remote control sensor on the main unit is approximately 5 m maximum.
- When the effective distance decreases, replace the batteries.
- Do not drop the remote control or subject it to excessive shock.

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

Operating the TV Using the Remote Control



Setting the manufacturer's code

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

2 Hold down ⏻/I TV.

Hold down ⏻/I TV until step 4 is completed.

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 two or more manufacturer's codes, try them in turn and select the one that enables 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
Philips	14	Zenith	09
RCA	05		

5 Release ⏻/I TV.

NOTE

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

For TV operation

Operate the remote control by pointing it towards the TV.

⏻/I TV	Turn on/off the power.	
TV CHANNEL + −	Change channels.	
TV VOL + −	Adjust volume.	
1 - 9 / 0 / 100+ +10	AUDIO TV *1	Select channels.
TV RETURN 10	Change between the previously selected channel and the current channel.	
TV/VIDEO	Change between TV and video input.	

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

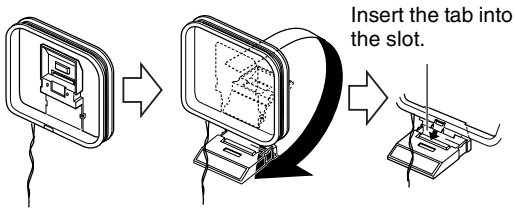
NOTE

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

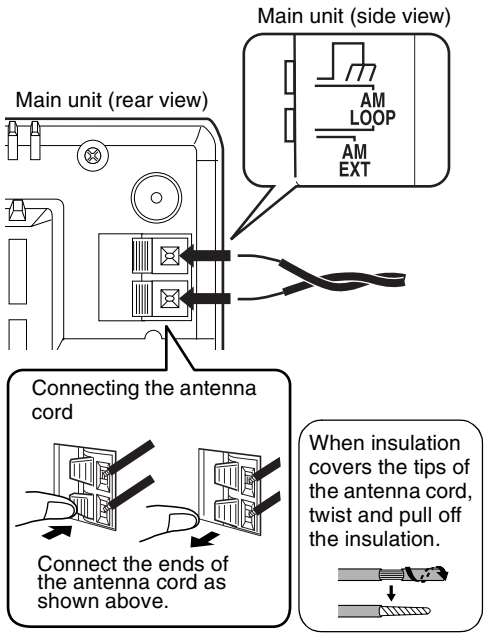
Connecting the Antennas

Connecting the AM antenna

1 Set up the AM antenna (supplied).



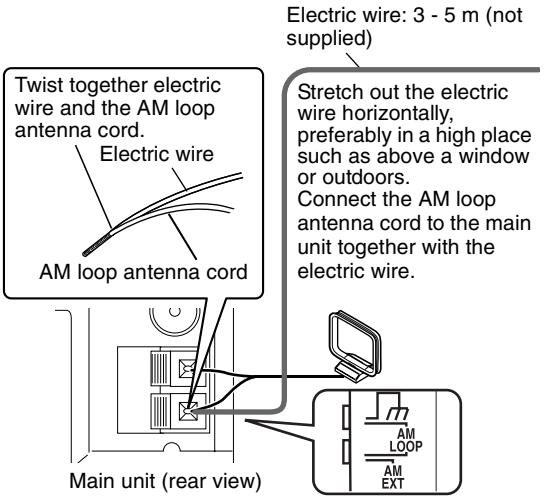
2 Connect the antenna cord.



3 Turn the AM loop antenna to find the best position for radio reception.
Place the AM loop antenna as far from the main unit as possible.

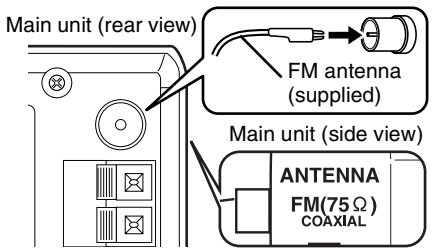
- Do not place the AM loop antenna on a metallic table or close to a TV, computer, or other electric appliances. Doing so may affect radio reception.

■When radio reception with the supplied AM loop antenna is poor

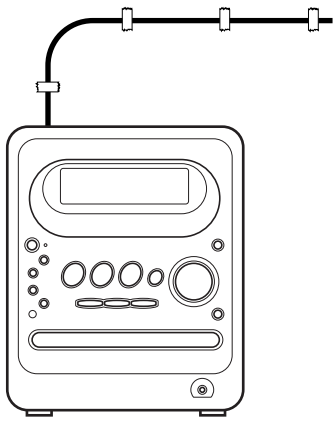


When positioning the antennas, find the best position for reception while listening to an actual radio program (refer to "Listening to Radio Broadcasts" (☞ page 20)).

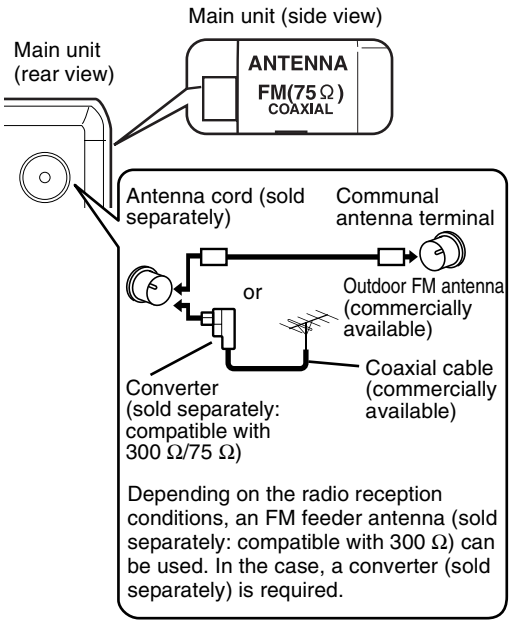
Connecting the FM antenna



Stretch out the FM antenna to the best position for radio reception, and then fix it with adhesive tape.



■When radio reception with the supplied FM antenna is poor, or when using a communal antenna

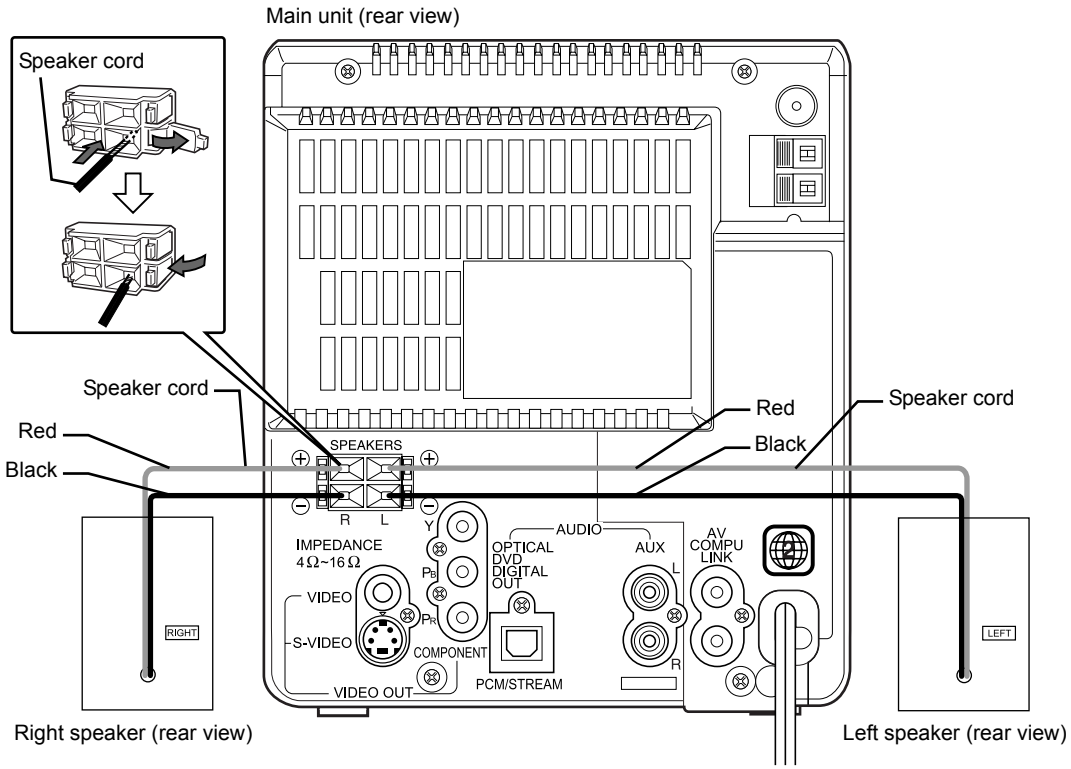


When using an antenna other than those supplied with this product, refer to the operation manuals for the antenna for details of connection.

When positioning the antennas, find the best position for reception while listening to an actual radio program (refer to "Listening to Radio Broadcasts" (☞ page 20)).

Connecting the Speakers

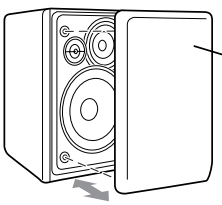
After connecting the speakers, gently pull on the speaker cords to make sure that they are firmly connected.



CAUTION

- Do not short-circuit the ⊕ and ⊖ speaker terminals. Doing so may damage the main unit.
- Do not connect other speakers together with the supplied speakers. The change in impedance may damage the main unit and the speakers.
- The speakers of this product are magnetically shielded, but color irregularities may occur on the TV depending on how the speakers are installed. Keep in mind the following.
  1. Turn off the main power of your TV before installing the speakers. Wait for about 30 minutes before turning on the TV again.
  2. If color irregularity occurs in pictures, keep enough distance between the TV and the speakers.

You can detach the speaker cover.

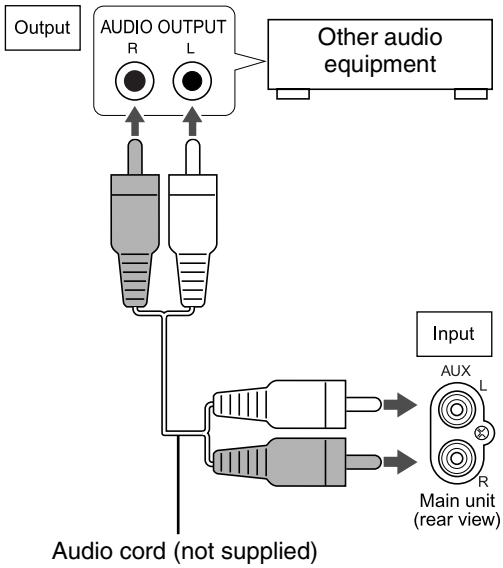


NOTE

- Improper speaker cord connection spoils the stereo effect and sound quality.
- The impedance of speakers connected to this product must be within the range of 4 Ω to 16 Ω.
- A cooling fan is built into the main unit. The internal cooling fan automatically rotates to dissipate generated heat. To ensure sufficient cooling, leave a space of at least 1 cm between the main unit and the speakers or other objects.

Connecting Other Equipment

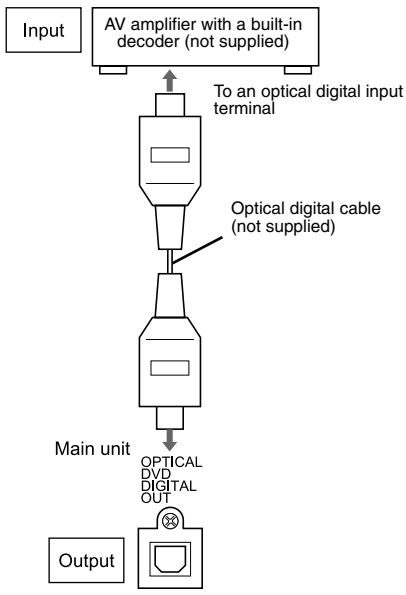
Read this section when connecting other audio equipment to this product.



CAUTION

- Before connecting other equipment, turn off both the main unit and the equipment.

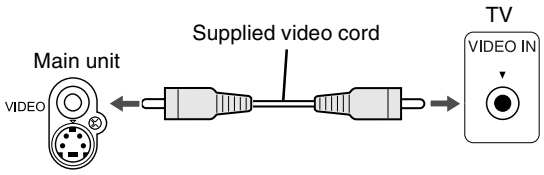
Connecting with digital equipment



CAUTION

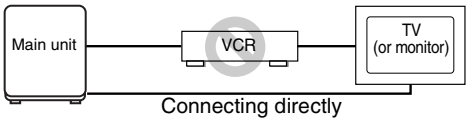
- For details of signals to be output, refer to "List of relationships of DIGITAL AUDIO OUTPUT preference items and output signal". (☞ page 40)
- If the main unit is connected to equipment with a Dolby Digital decoder, "D. RANGE COMPRESSION" setting of "AUDIO" (☞ page 40) is disabled for sound from the digital audio output of the main unit.
- Set "3D PHONIC" to "OFF" (☞ page 30) when an external equipment is using a signal from the OPTICAL DVD DIGITAL OUT terminal on the main unit.

Connecting with a 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 back. (Such picture distortion is caused by a copy protection system and is not a malfunction.)



Connecting directly

Also, if the main unit is connected to a TV with a built-in VCR, there may be picture distortion during playback.

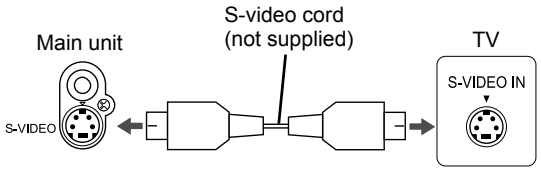
NOTE

- Before playing back the discs with video output, you need to select the color system and the video processing system. Refer to "Selecting the Color System and the Video Processing System (SCAN MODE)" (☞ Page 19).
- You need to set "MONITOR TYPE" in the "PICTURE" menu correctly according to the aspect ratio of your TV. (☞ page 39)

When a Clearer Picture Is Desired

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

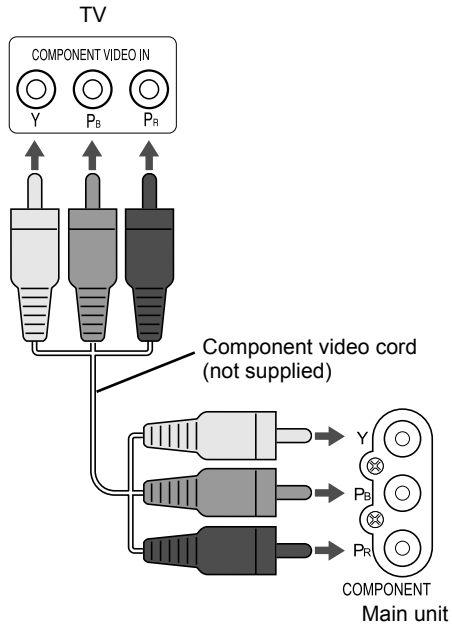
Connecting by using the S-video cord



Connect the ends of S-video cord making sure that each end matches its compatible terminal.

Connecting by using the component video cord

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



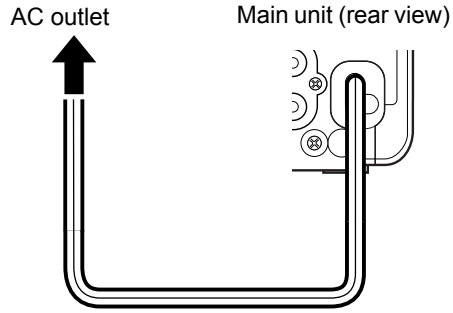
CAUTION

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

NOTE

- In order to enjoy pictures with the progressive mode (☞ page 19), 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 Plug



- After making all other necessary connections, connect in the power plug.
- If not using this product for a long period, disconnect the power plug from the AC outlet for safety and to save electricity.
- The clock setting will be lost after the power plug has been disconnected or the power is interrupted for more than 1 minute. The timer settings will be lost when the power is interrupted. When the power is restored, set the clock and the timers again.

Disabling the Demonstration Display

When you connect the power plug into the AC outlet, "DEMO START!" appears in the display window and the demonstration display starts. Before using the main unit, turn off the demonstration display by setting the function to "DEMO CLEAR".

■When the power is turned off

Hold down ◯ COLOR /DEMO on the main until "DEMO CLEAR" appears.

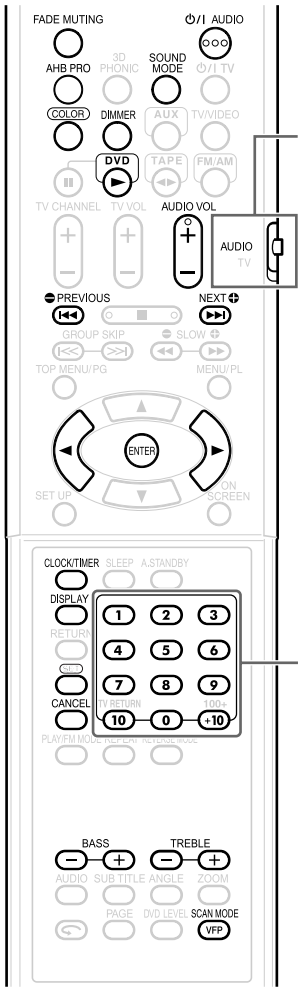
Disconnecting and then reconnecting the power plug will not start the demonstration display.

NOTE

- To activate the demonstration display again, hold down ◯ COLOR /DEMO on the main unit while the power is off until "Hello" appears.
- Activating the demonstration display turns on the main unit.
- When you press a button on the main unit, "DEMO OFF" appears in the display window and the demonstration display is canceled. (Disconnecting and then reconnecting the power plug will start the demonstration display again.)

Basic Operations

This manual explains the operations assuming that you will use the remote control. Some buttons on the main unit are the same as those on the remote control.



CAUTION

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

Using the number buttons

Examples: 3: (3)
13: (+10) → (3)
20: (+10) → (10)
23: (+10) → (+10) → (3)

Setting the Clock

You can set the clock while the main unit is turned either on or off.

Example: To set the clock to 10:10 a.m. on Wednesday

1 Press CLOCK/TIMER.

0:00 Sun.

2 Set the hour.

PREVIOUS (Back) NEXT (Next) **or** Back Next

- Holding down the button causes the hour to increment.
- You can use the number buttons to specify the hour.
  Refer to "Using the number buttons" shown on the left.

10:00 Sun.

3 Press SET **or** ENTER.

10:00 Sun.

4 Set the minute.

- Set the minute in the same manner as in step 2.

5 Press SET **or** ENTER.

6 Set the day of the week.

PREVIOUS (Back) NEXT (Next) **or** Back Next

- Each time you press PREVIOUS NEXT or , the day of the week changes.

10:10 Wed.

- Abbreviations are used for the days of the week.
  Sun. → Sunday
  Mon. → Monday
  Tue. → Tuesday
  Wed. → Wednesday
  Thu. → Thursday
  Fri. → Friday
  Sat. → Saturday

7 Press SET **or** ENTER.

- The clock starts from 0 seconds in the minute you set.

NOTE

- While setting the clock, you can return to the previous step by pressing CANCEL.

(Continued on next page)

Adjusting the clock

Press CLOCK/TIMER four times to display the clock, and then adjust the clock starting from step 2 on page 16.

Displaying the clock while using the main unit

Press DISPLAY repeatedly.

NOTE

- The time display on the main unit is a 24-hour clock.
- The clock will gain or lose approximately 1 minute per month.
- Set the clock again after you have disconnected the power plug or a power is interrupted.

Turning On/Off the Main Unit

Used frequently

Press ⏻/I AUDIO (or ⏻/I on the main unit).

- With the power off, pressing either button also turns on the main unit.

Remote control: DVD TAPE FM/AM AUX

Main unit:

When a disc or cassette tape has been loaded, playback starts automatically.

NOTE

- Cooling fan is built into the main unit for emitting generated heat. When you turn on the main unit, the internal cooling fan automatically starts rotating.

Adjusting the Volume

Used frequently

Press AUDIO VOL **.**

NOTE

- You can also adjust the volume by turning the VOLUME control on the main unit.
- You can adjust the volume within the range of 0 to 40.

Adjusting the Sound Quality

Selecting the sound mode

Press SOUND MODE.

- Each time you press SOUND MODE, the display changes as follows.

ROCK : For emphasizing treble and bass sounds.
↓
POPS : Adequate for songs and narrations.
↓
CLASSIC : For emphasizing treble sound.
↓
JAZZ : For uplifting a feeling of being at a live performance.
↓
MANUAL : For adjusting treble and bass sounds of your choice (shown below).
↓
FLAT : Cancels the sound mode (factory setting).

- While the sound mode is set to an item other than "FLAT", **SOUND** is displayed in the display window.

NOTE

- This function does not affect recording sound.

Adjusting bass/treble sound

1 Press SOUND MODE repeatedly to display "MANUAL".

2 For adjusting bass sound;
Press BASS (−)(+).
For adjusting treble sound;
Press TREBLE (−)(+).

- You can adjust the sound quality within the range of -5 to +5.
- The display returns to the sound source display in a few seconds.

NOTE

- While the sound mode is set to an item other than "MANUAL", "NO OPERATE" is displayed in the display window and you cannot adjust bass/treble sound.

Temporarily Turning Off the Sound (FADE MUTING)

Press FADE MUTING ◯.

- "FADE MUTING" appears and the volume reduces to "0".
- To return to the previous volume, press FADE MUTING ◯ again.

Emphasizing Heavy Bass Sound (AHB PRO)

Press AHB PRO ◯.

- Each time you press AHB PRO ◯, AHB PRO function changes between "ON" and "OFF".
- While AHB PRO function is activated, AHB PRO is displayed in the display window.
- "AHB PRO" stands for "Active Hyper Bass PRO".

Changing the Display Brightness (DIMMER)

You can change the brightness of the display window, the disc tray, and the circumference of the VOLUME control.

Press DIMMER ◯.

- Each time you press DIMMER ◯, the display changes as follows.

DIMMER 1	: Color pattern becomes dimmer.
↓	
DIMMER 2	: Color pattern becomes darker, and switches to blue.
↓	
DIMMER AUTO	: DIMMER 2 is automatically selected during video playback, and is canceled when the playback stops.
↓	
DIMMER OFF	: Cancels the brightness adjustment (factory setting).

NOTE

- Once you press COLOR ◯ to change the color pattern, the brightness returns to the initial setting. (except for DIMMER AUTO)
- You cannot turn off the color pattern.

Changing the Color Patterns

Press COLOR ◯ (or ◎ COLOR /DEMO on the main unit).

- Each time you press COLOR ◯, the color of the display window, the disc tray, and the circumference of the VOLUME control changes as follows.

RAINBOW	: A rainbow-like pattern.
↓	
OCEAN	: An ocean-inspired pattern.
↓	
FLOWER	: A flower-inspired pattern.
↓	
GRADATION	: A kaleidoscopic pattern with various colors.
↓	
VIOLET	: A sober violet color.
↓	
VENUS	: A pink and pale blue pattern inspired by Venus relaxing on the beach.
↓	
TURQUOISE	: A bright turquoise blue.
↓	
CANDY	: A pink and green candy-inspired pattern.
↓	
CRYSTAL	: A bright crystal color.
↓	
PINK	: A rose pink color.
↓	
ORANGE	: A passion orange color.
↓	
GREEN	: A lime green color.
↓	
BLUE	: A fresh blueberry color.
↓	
PURPLE	: A juicy grape color.

NOTE

- You cannot set different colors for the color of the display window, the disc tray, and the circumference of the VOLUME control.
- When you operate a button on the main unit or remote control, the display window, the disc tray, and the circumference of the VOLUME control light in pale blue for approximately 2 seconds.
- When recording finishes, the color of the display window, the disc tray, and the circumference of the VOLUME control switches to red to inform you that recording has ended. Next time you press a button, the color pattern returns to the selected pattern.

For the locations of remote control buttons, refer to page 16.

Selecting the Color System and the Video Processing System (SCAN MODE)

Before playing back video discs, you need to select the color system and the video processing system.

NOTE

- Make sure that the main unit is connected with the TV using a component video cord when you select the progressive mode (☞ page 15).

1 Press DVD, and then press ■.

2 Hold down SCAN MODE (VFP) for approximately 2 seconds.

- Currently selected color system and the video processing system appear on the display window.

3 Press ◄ ► to select the desired system.

PAL	PAL color system in the interlace mode is selected.
PAL PROG.	PAL color system in the progressive mode is selected. Make sure that the TV supports PAL progressive video input (☞ page 15).
NTSC	NTSC color system in the interlace mode is selected.
NTSC PROG.	NTSC color system in the progressive mode is selected. Make sure that the TV supports NTSC progressive video input (☞ page 15).

"PAL PROG." or "NTSC PROG." gives finer detailed images than "PAL" or "NTSC".

4 While the selected system is displayed, press ENTER.

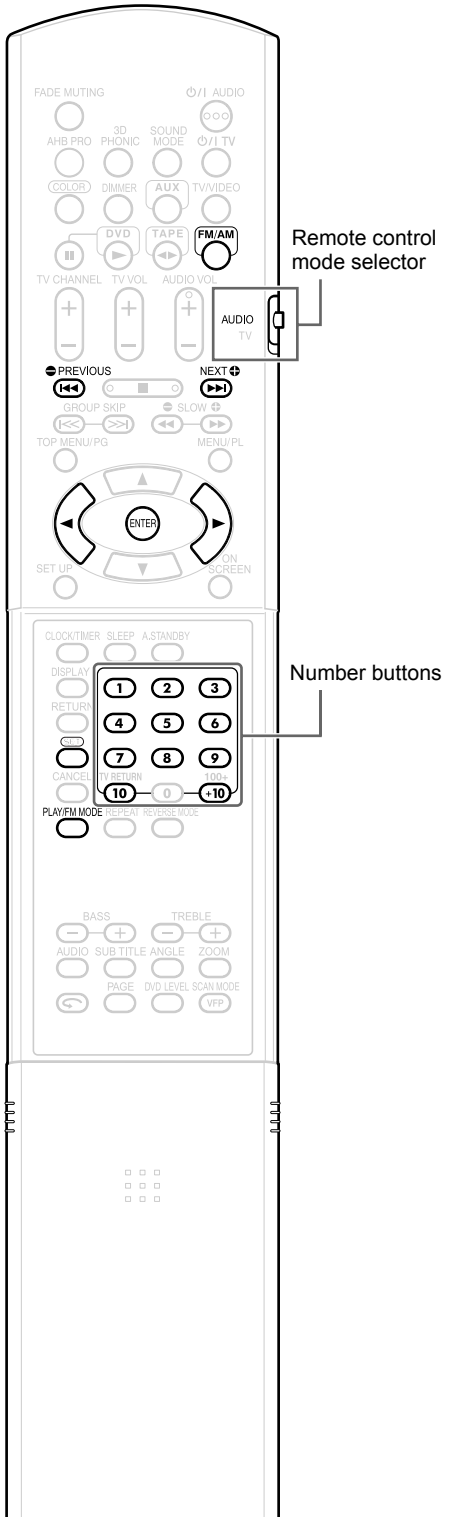
NOTE

- Some TVs may not be compatible with the progressive mode. In this case, select "PAL" or "NTSC".
- All progressive TVs and High-Definition TVs manufactured by JVC are compatible with "PAL PROG." and "NTSC PROG."
- Before playing back a disc, it is also required to select the correct "MONITOR TYPE" in the "PICTURE" menu according to the aspect ratio of your TV (☞ page 39).
- If you play back an NTSC disc with this setting set to "PAL" or "PAL PROG.", you can watch the playback pictures (the disc will be reproduced using "PAL 60" format), but the TV screen may rolls over upward and downward rapidly.
- If you play back a PAL disc with this setting set to "NTSC" or "NTSC PROG.", you can watch the playback pictures, but the following symptoms may occur:
  - The items on the disc menu will be blurred, and be shown slightly shifted when highlighted.
  - The aspect ratio of the picture may differ from the original aspect ratio.
  - The picture movement is not smooth.

Listening to Radio Broadcasts

Used frequently

This product can receive FM and AM radio broadcasts.



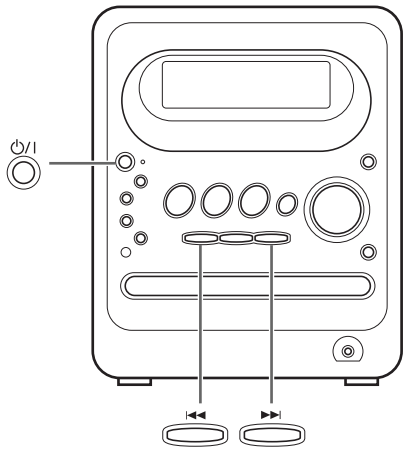
CAUTION

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

Setting the AM Tuner Spacing

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

On the main unit ONLY:



■When the main unit is turned off

To select 10 kHz spacing, while holding down ⏭ on the main unit, press ⏻/I on the main unit to turn on the power. "AM 10 kHz SP" appears in the display window.

To select 9 kHz spacing, while holding down ⏮ on the main unit, press ⏻/I on the main unit to turn on the power. "AM 9 kHz SP" appears in the display window.

NOTE

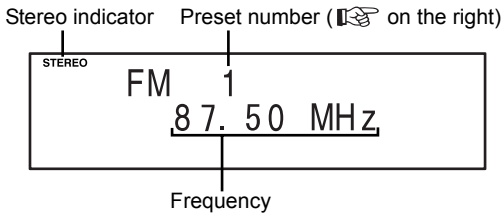
- If the spacing is switched, the memory in which the radio stations were stored will be erased.

For the locations of remote control buttons, refer to page 20.

Selecting a Radio Station

1 Press FM/AM to select "FM" or "AM".

Example: While an FM radio broadcast is received



2 Press PREVIOUS or NEXT repeatedly to select a radio station (frequency).

- You can also select a radio station using the automatic tuning.

Automatic tuning:

Hold down PREVIOUS or NEXT until the frequency starts changing, and then release the button.
When the main unit has received a broadcast, the frequency automatically stops changing.
To quit the function while searching for a broadcast, press PREVIOUS or NEXT.

- When the main unit has received an FM stereo broadcast, "STEREO" lights up.

Switching the FM reception (stereo/monaural):

If an FM stereo broadcast is difficult to hear because of noise, you may be able to hear more easily by pressing PLAY/FM MODE to switch the sound to monaural reception. In this case, "MONO" lights up. To return the sound to stereo reception, press PLAY/FM MODE again.

Storing Radio Stations (Preset)

You can store up to 30 FM radio stations and up to 15 AM radio stations.

■While the broadcast from the radio station you want to preset is being received

1 Set the remote control mode selector to AUDIO.

2 Press SET.

- The preset number flashes for approximately 5 seconds.

3 While the preset number is flashing, press the number buttons (1 - 10 or +10) to select the preset number you want to use.

- Refer to "Using the number buttons" (☞page 16).
- You can also select the preset number by pressing ◄ or ►.

4 While the selected number is flashing, press SET or ENTER.

- "STORED" appears and the selected radio station is stored.

NOTE

- The type of FM reception (stereo/monaural) is also stored (☞ on the left).
- When you store a radio station to a preset number to which another radio station has previously been stored, the newly set radio station replaces the previously stored radio station.

Tuning In to a Preset Radio Station

■While an FM or AM broadcast is being received

1 Set the remote control mode selector to AUDIO.

2 Use the number buttons to select the preset number of the radio station to which you want to tune in.

- Refer to "Using the number buttons" (☞ page 16).
- You can also select the preset number by pressing ◄ or ►.

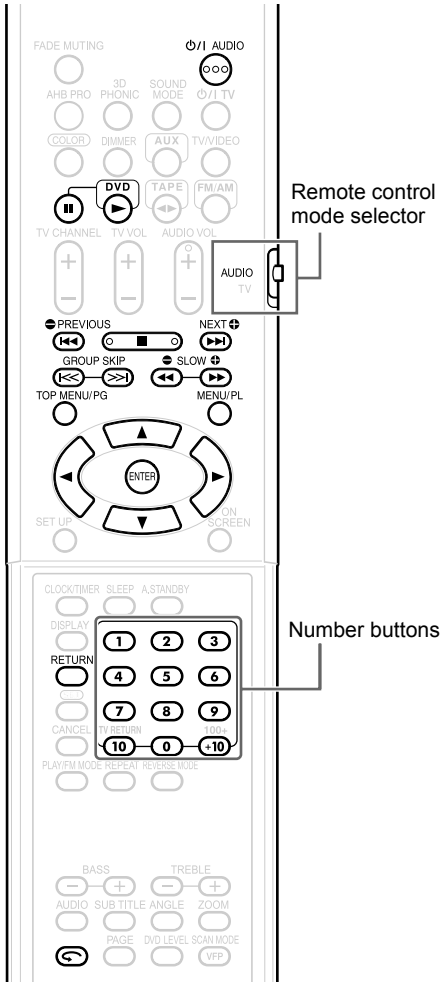
Basic Operations of the DVD Player

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 VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA JPEG

- The illustrations and TV screens may be different between the actual case and the description.
- "DVD VR" means a DVD recorded in DVD Video Recording (DVD VR) format.
- "VCD" stands for "Video CD".
- "SVCD" stands for "Super Video CD".



NOTE

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

Playback

Used frequently

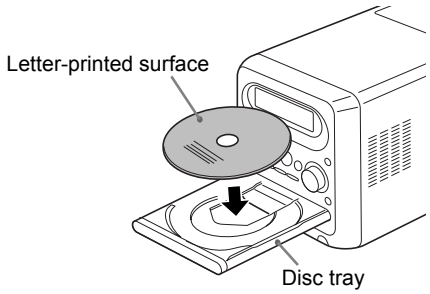
DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD

(Refer to page 37 for playing back MP3/WMA and JPEG.)

1 Press DVD⏏ on the main unit.

- The disc tray comes out.

2 Place a disc on the disc tray.

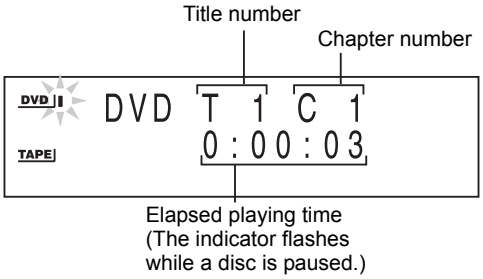


- When you want to listen to an 8 cm disc, place it on the inner hollow of the disc tray.

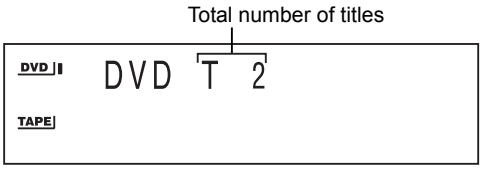
3 Press DVD.

■Display for DVD VIDEO

Display while a DVD VIDEO is being played back:



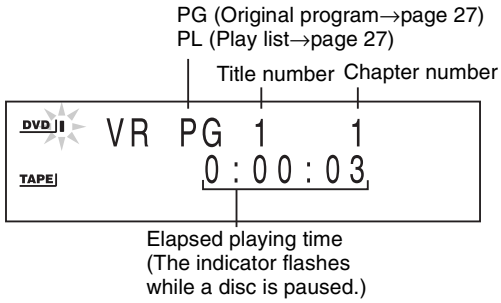
Display while the DVD VIDEO is stopped:



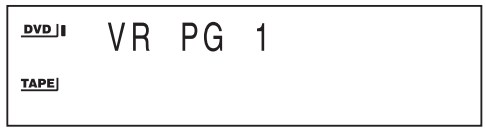
(Continued on next page)

■Display for a DVD VR

Display while a DVD VR is being played back:

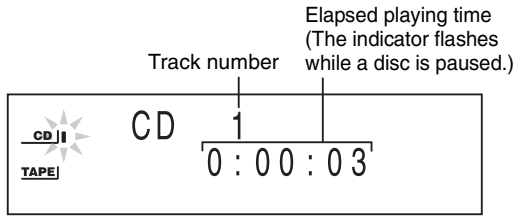


Display while a DVD VR is stopped:

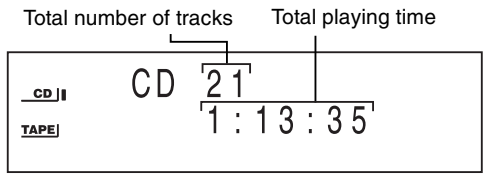


■Display for CD

Display while a CD is being played back:

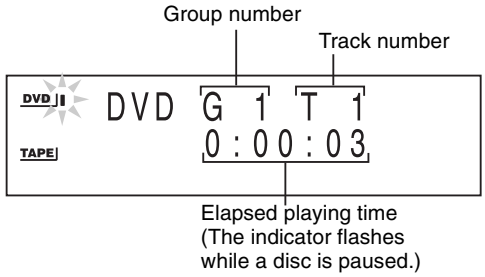


Display while a CD is stopped:

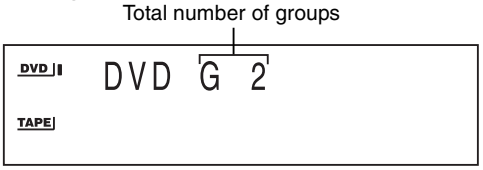


■Display for DVD AUDIO

Display while a DVD AUDIO is being played back:



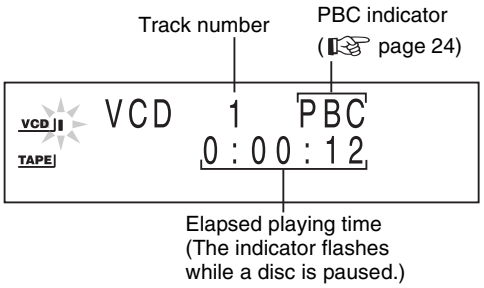
Display while a DVD AUDIO is stopped:



• "G1" and "T1" will appear after the total number of groups is displayed.

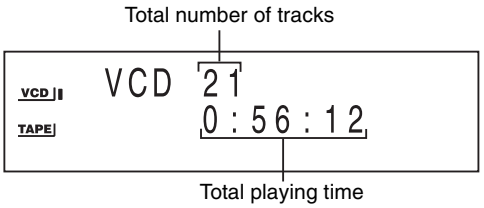
■Display for VCD/SVCD

Display while a VCD/SVCD is being played back:



• PBC indicator is displayed while PBC is activated.

Display while a VCD/SVCD is stopped:



• "PBC" will appear after the total number of tracks is displayed.

NOTE

- The menu may appear in the display window after DVD playback starts. In such a case, select the desired menu item by using the following buttons on the remote control.
  - Select a menu item with ▲, ▼ or ◄►, and then press ENTER.
  - Select a menu item with the number buttons.
- Operation may differ from the explanation given here, depending on the disc type.

Messages displayed on the TV screen

While a DVD is selected as the sound source, the messages shown below are displayed, depending on the status.

NOW READING
The main unit is reading the disc. Wait for a while.

REGION CODE ERROR!
The disc cannot be played back because its region code is not compatible. (☞ page 4)

NO DISC
No disc is loaded.

OPEN
The disc tray is opening.

CLOSE
The disc tray is closing.

CANNOT PLAY
You are trying to play back an unplayable disc.

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

: Play (☞ page 22)

: Pause (☞ page 25)

: Fast reverse/Fast forward search (☞ page 25)

: Slow motion playback (reverse/forward directions)(☞ page 26)

: Containing multi-angle views (☞ page 29)

: Containing multi-audio (☞ page 28)

: Containing multi-subtitle (☞ page 29)

: The disc cannot accept the operation you have attempted.

PBC (Playback control)

- PBC is a signal recorded in a VCD (version 2.0) for controlling VCD playback. You can operate software that has interactive or search functions using the menu display recorded in a PBC-compatible VCD. To play back a VCD without PBC, follow the operation below.
  - Select the desired track number with the number buttons while playback is stopped.
  - While playback is stopped, press PREVIOUS ⏮ or NEXT ⏭ to select the desired track number, and then press DVD ▶.
- While a VCD or SVCD is being played back with PBC, press RETURN to return to the higher menu group.

Playing Back from a Position 10 Seconds Before (One Touch Replay)

DVD VIDEO DVD VR

■While a disc is being played back

Press ↩.

NOTE

- This operation may not work with some discs.
- You cannot return to the previous title.

Stopping Playback

Used frequently

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA JPEG

■While a disc is being played back

Press ■.

Resuming Playback (RESUME)

DVD VIDEO DVD AUDIO DVD VR VCD SVCD MP3 WMA

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

How to suspend playback

■While a disc is being played back

Perform any of the following operations during playback.

Press ■ once.*
Press ⏻/I AUDIO to turn off the power.
Change the source to FM/AM or AUX.*

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

How to start playback from the stored position

Press DVD ▶.

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, the subtitle 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" appears. If ■ is pressed at this time, "RESUME" will disappear and the stored information will be cleared.
- **Resume function is set to on as the initial preset. You can set the function to off (☞ page 40).**

Pausing Playback

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA JPEG

■While a disc is being played back

Press ⏸.

To resume normal playback, press DVD ▶.

- Playback cannot be paused by pressing DVD ▷/II on the main unit during JPEG disc slide-show.

Advancing Picture Frame by Frame

DVD VIDEO DVD VR VCD SVCD DVD AUDIO (only for moving images)

■While a disc is paused

Press ⏸.

- Each time you press ⏸, picture will be advanced frame by frame.
- You cannot operate this function with DVD ▷/II on the main unit.

Fast Reverse/Fast Forward Search

Used frequently

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA

There are two methods.

■While a disc is being played back

Press ◀◀ or ▶▶.

- Each time you press ◀◀ or ▶▶, the speed increases as shown below.

×2 ➡ ×5 ➡ ×10 ➡ ×20 ➡ ×60

- To restore the normal speed, press DVD ▶.

Hold down PREVIOUS ⏮ or NEXT ⏭.

- Fast reverse/fast forward search can be carried out only while the button is pressed.

NOTE

- For a DVD VIDEO, DVD VR, VCD or SVCD, no sound comes out during fast reverse/fast forward search.
- For a CD, MP3, WMA, or DVD AUDIO, sound is intermittent during fast reverse/fast forward search.

Slow Motion Playback

DVD VIDEO DVD VR VCD SVCD DVD AUDIO (only for moving images)

■While a disc is paused

Press SLOW ◀◀ or SLOW ▶▶.

- Each time you press SLOW ◀◀, the speed increases as shown below.
  $^1/_{32}$ ➡ $^1/_{16}$ ➡ $^1/_8$ ➡ $^1/_4$ ➡ $^1/_2$
- Press ⏸ to pause playback, and press DVD ▶ to resume normal playback.

NOTE

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

Skipping to the Beginning of a Track

Used frequently

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA JPEG (PBC off)

■While a disc is being played back

Press PREVIOUS ⏮ or NEXT ⏭.

- Each time you press PREVIOUS ⏮, the current chapter/track/file skips to the beginning of the previous chapter/track/file.
- Each time you press NEXT ⏭, the current chapter/track/file skips to the beginning of the next chapter/track/file.
- Press GROUP SKIP |<< —— >>| to select a title or group.

NOTE

- Except for a DVD VIDEO, this operation can also be carried out while the disc is stopped.
- This operation may not work with some discs.

Skipping to the Beginning of a Track with the Number Buttons

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA JPEG (PBC off)

■While a disc is being played back

1 Set the remote control mode selector to AUDIO.

2 Press the number buttons (1 - 10 or +10) to select the track/chapter you want to listen to.

- Refer to "Using the number buttons" (☞ page 16).

NOTE

- You can operate a DVD AUDIO, CD, MP3, WMA, or JPEG while the disc is stopped.
- This operation may not work with some discs.

For the locations of remote control buttons, refer to page 22.

Selecting a Track from the Menu Screen

DVD VIDEO DVD AUDIO DVD VR VCD SVCD (PBC off)

■While a disc is stopped or being played back

1 Set the remote control mode selector to AUDIO.

2 Press MENU/PL or TOP MENU/PG.

• A menu screen of the disc appears.

3 Press ▲ ▼ ◄ ► (only for a DVD VIDEO or a DVD AUDIO) or the number buttons to select a track you want to listen to.

• Refer to "Using the number buttons" (☞ page 16).
• If there are two or more pages of menu screen, press PREVIOUS or NEXT to change the pages.

4 Press ENTER.

NOTE

- Only MENU/PL can be used for DVD AUDIOs.
- You cannot perform this function with discs to which a menu screen is not recorded.
- Some disc may start playback even if you do not press ENTER.

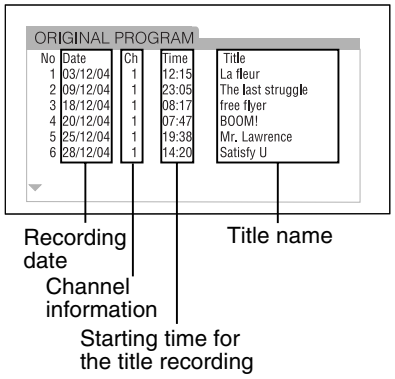
Using the Menu Screen for DVD VRs

■While a disc is stopped or being played back

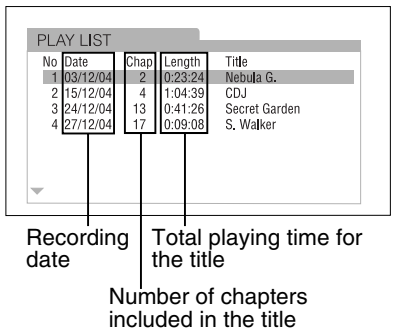
1 Press TOP MENU/PG to display the original program or press MENU/PL to display the play list.

Example

Original program



Play list *

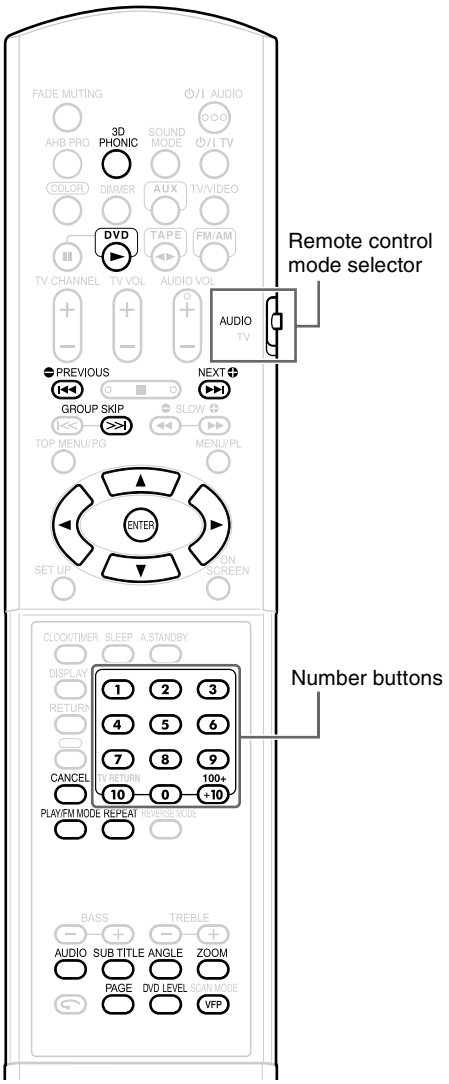


* A play list will appear only when it has been recorded in the disc.

2 Press ▲ ▼ to select the desired title.

3 Press ENTER.

• When you have selected the original program, playback will start from the selected title to the following titles.
• When you have selected the play list only the selected title will be played back.



NOTE

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

Selecting the Audio Language

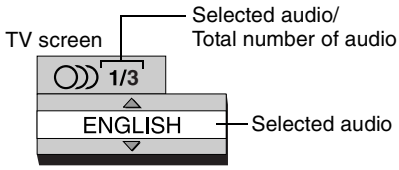
Used frequently

DVD VIDEO DVD AUDIO DVD VR VCD SVCD

■While a disc containing two or more audio is being played back

1 Press AUDIO.

Example: For DVD VIDEO



- Each time you press AUDIO, the audio will be changed. The audio can changed by pressing ▲ ▼.

1/3 ENGLISH
2/3 CHINESE
3/3 SPANISH

2 Press ENTER.

- The audio language setting will change automatically in a few seconds even if ENTER is not pressed.

NOTE

- You can also operate this function by using the menu bar (☞ page 35).
- For a language code such as "AA", refer to "Language Codes" (☞ page 41).
- When 2 channel sounds are recorded in 1/2 and multi channel sounds with down-mix prohibited are recorded in 2/2 in a DVD AUDIO, you can select 1/2 only.

Selecting the Subtitle Language

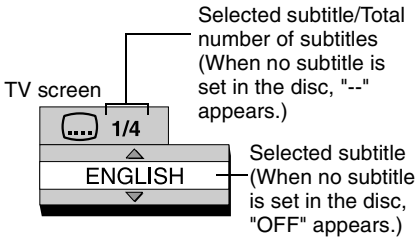
DVD VIDEO DVD VR SVCD DVD AUDIO (only for moving images)

This part explains the operation with displays of a DVD VIDEO as examples.
You can use discs of other types in almost the same manner.

■While a disc containing two or more subtitles is being played back

1 Press SUB TITLE.

Example: For DVD VIDEO



2 Press ▲ ▼ to select a subtitle.

3 Press ENTER.

- The subtitle language setting will change automatically in a few seconds even if ENTER is not pressed.

NOTE

- You can also operate this function by using the menu bar (☞ page 35).
- For an SVCD, each time you press SUB TITLE in step 1, the subtitle type and ON/OFF will be changed.
- For a language code such as "AA", refer to "Language Codes" (☞ page 41).
- The manner of displaying subtitles may be different depending on the disc.

Canceling the subtitle

Press SUB TITLE to select "OFF".

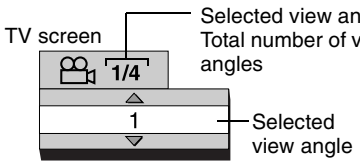
Selecting a View Angle

DVD VIDEO DVD AUDIO (only for moving images)

■While a disc containing two or more view angles is being played back

1 Press ANGLE.

Example: For DVD VIDEO



- Each time you press ANGLE, the angle will be changed. The angle can also be changed by pressing ▲ ▼.

2 Press ENTER.

- The view angle setting will change automatically in a few seconds even if ENTER is not pressed.

NOTE

- You can also operate this function by using the menu bar (☞ page 35).

Magnifying the Picture (ZOOM)

DVD VIDEO DVD VR VCD SVCD DVD AUDIO JPEG (only for moving images)

■While a disc is played back or paused

1 Press ZOOM.

- Each time you press ZOOM, the picture magnification will be changed (OFF, ZOOM1 - 6).
- When a JPEG disc is used, the picture magnification changes through "ZOOM 1", "ZOOM 2" to "OFF". You cannot change the picture magnification during slide-show playback.

2 Select the portion you want to see by pressing ▲ ▼ ◄ ►.

CAUTION

- When you magnify a picture, image quality may be deteriorated or image may be distorted.

Adjusting the Picture Quality (VFP)

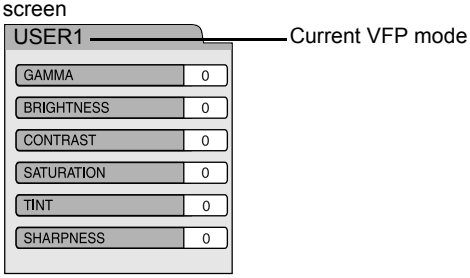
DVD VIDEO DVD AUDIO DVD VR VCD SVCD JPEG

■While a disc is played back or paused

1 Press (VFP).

Example: For DVD VIDEO

TV screen



Setting items

GAMMA : Controls the brightness of neutral tints while maintaining the brightness of dark and light portions.
(Setting range: **–3 - +3**)

BRIGHTNESS : Controls the brightness of the display.
(Setting range: **–8 - +8**)

CONTRAST : Controls the contrast of the display.
(Setting range: **–7 - +7**)

SATURATION : Controls the saturation of the display.
(Setting range: **–7 - +7**)

TINT : Controls the tint of the display.
(Setting range: **–7 - +7**)

SHARPNESS : Controls the sharpness of the display.
(Setting range: **–8 - +8**)

2 Press ◄ ► to select VFP mode.

NORMAL : For normal playback.
(You cannot adjust the image quality.) → Go to step 7.

CINEMA : Suitable when viewing a movie in a dim room.
(You cannot adjust the image quality.) → Go to step 7.

USER1/USER2: You can adjust the image quality.
→ Go to step 3.

3 Press ▲ ▼ to select an item you want to adjust.

4 Press ENTER.

Example: For DVD VIDEO

TV screen

5 Press ▲ ▼ 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" stands for "Video Fine Processor".

Creating Realistic Sound (3D PHONIC)

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA

The two speakers produce an effect resembling surround-sound.

■While a disc is being played back

Press 3D PHONIC.

Example: For DVD VIDEO

TV screen

• Each time you press 3D PHONIC, the display changes as follows.

ACTION : Suitable for action movies, sport programs or other lively programs.

↓

DRAMA : You can relax with a natural atmosphere.

↓

THEATER : You can enjoy the sound effect as if you were watching the movie in a theater.

↓

OFF : Cancels 3D phonic (factory setting).

• While 3D phonic is activated, 3D PHONIC is displayed in the display window.

NOTE

- 3D phonic is effective for both the speakers and headphones.
- When noise is produced or sound is distorted, set "3D PHONIC" to "OFF".
- This operation may not work with some discs.
- The volume may be increased automatically after "3D PHONIC" is activated for some discs.

Adjusting Playback Level (DVD LEVEL)

DVD VIDEO DVD AUDIO

The audio of a DVD VIDEO and DVD AUDIO may be recorded at a lower level (volume) than for other types of disc. You can adjust the DVD level.

■While a disc is being played back

Press DVD LEVEL.

- Each time you press DVD LEVEL, the display changes as follows in the display window.

NORMAL : Sound level recorded in the DVD.
↓
MIDDLE : Enhances the sound level (factory setting).
↓
HIGH : Enhances the sound level to the highest level.

- Select the level while listening to the sound played back.

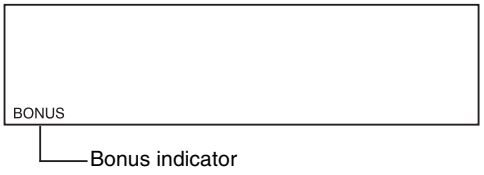
NOTE

- 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 function does not affect the recording sound being recorded.

Playing Back the Bonus Group

DVD AUDIO

Some DVD AUDIO discs have a special group, called a "bonus group", recorded.



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

■While a disc is being played back

1 Set the remote control mode selector to AUDIO.

2 Press GROUP SKIP repeatedly during playback to select a bonus group.

- "KEY_ _ _ _" appears on the TV screen and in the display window on the main unit.

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

- The method of obtaining the pin code differs depending on the disc.

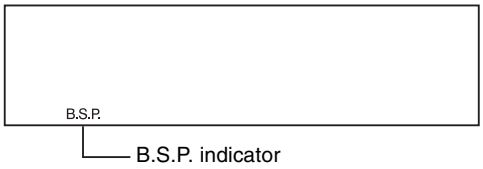
4 Press ENTER.

- 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.)

DVD AUDIO

There are some DVD AUDIO discs with still pictures recorded. Among the still pictures, there are pictures called B.S.P. (browsable still pictures). You can change these pictures as if turning over pages.

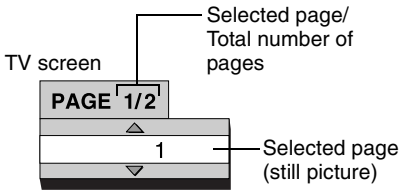


- This operation can be carried out when "B.S.P." is lit in the display window on the main unit.

■While a disc is being played back

1 Press PAGE.

- Each time you press PAGE, the still picture will be switched over.
- You can also change the pictures by pressing ▲ ▼.



2 Press ENTER.

- The B.S.P setting will be stored automatically in a few seconds even if ENTER is not pressed.

NOTE

- You can operate this function on the menu bar (☞ page 35).

Playing Back the Disc in the Desired Order (Program Playback)

DVD VIDEO DVD AUDIO VCD SVCD CD MP3 WMA

You can program a maximum of 99 chapters or tracks. You can program the same chapter or track more than once.

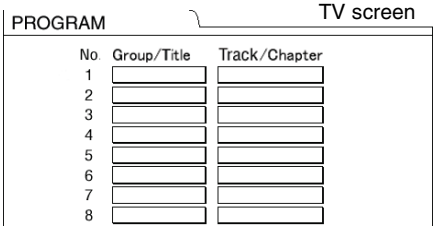
■While a disc is stopped

1 Set the remote control mode selector to AUDIO.

2 Press PLAY/FM MODE to select "PROGRAM".

- In case you have pressed PLAY/FM MODE more than twice, press PLAY/FM MODE repeatedly to display "PROGRAM".

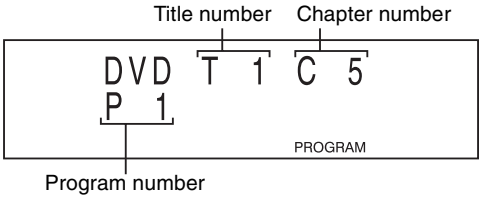
Example: For DVD VIDEO



3 Press the number buttons (1 - 10 or +10) to program chapters/tracks.

■Display for DVD VIDEO

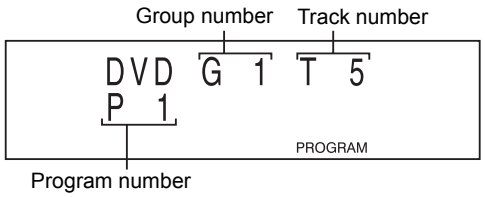
- Select a title number, and then select a chapter number.



(Continued on next page)

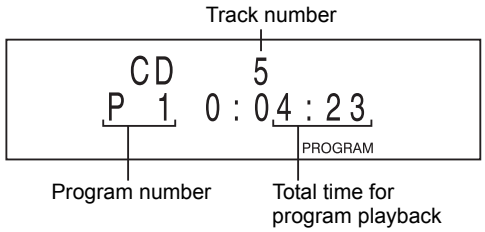
■Display for DVD AUDIO

• Select a group number, and then select a track number.



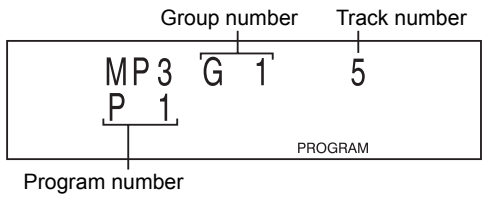
■Display for CD/VCD/SVCD

• Select a track number.



• "VCD" is displayed while a VCD/SVCD is selected.

■Display for MP3/WMA



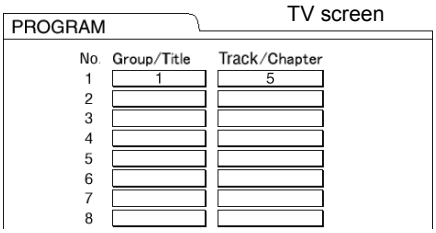
• "WMA" is displayed while a WMA is selected.

NOTE

• When you want to erase the program, press CANCEL while playback is stopped. Programmed tracks are erased one by one from the last program. Holding down CANCEL erases all programmed tracks.

Example: For DVD VIDEO

TV screen



• Refer to "Using the number buttons" (☞ page 16).
• Before selecting a bonus group of a DVD AUDIO, cancel the "BONUS" display as explained in "Playing back the Bonus Group" on page 31.
• When you try to enter more than 99 chapters or tracks, "MEMORY FULL" appears.

4 Press DVD.

NOTE

• For a DVD VIDEO, DVD AUDIO, MP3 or WMA disc, if you press ENTER instead of specifying a track/chapter number in step 3, "ALL" is displayed and all of the tracks/chapters included in the selected group/ title are programmed.

Confirming programmed content

While playback is stopped, press PREVIOUS or NEXT repeatedly.

• During this operation, you can add a track as the last in the program, or erase the last track. (☞ step 3)

Canceling program playback

While playback is stopped, press PLAY/FM MODE repeatedly to display an item other than "PROGRAM".

• This operation does not erase the programmed content.

Erasing the whole program

While playback is stopped, hold down CANCEL.

NOTE

• Ejecting the disc or turning off the main unit also erases the programmed content. This operation also cancels program playback.

Random Playback

DVD VIDEO DVD AUDIO VCD SVCD CD MP3 WMA

You can listen to tracks or chapters in random order.

■ While playback is stopped

1 Press PLAY/FM MODE repeatedly to select "RANDOM".

Example: For CD

• "RANDOM" appears in the TV screen.

2 Press DVD.

NOTE

- Pressing PREVIOUS repeatedly does not return playback to the previous track.
- Each track is played back once.

Canceling random playback

While playback is stopped, press PLAY/FM MODE repeatedly to display an item other than "RANDOM".

NOTE

- Ejecting the disc or turning off the main unit also cancels random playback.

Repeat Playback

DVD VIDEO DVD AUDIO DVD VR VCD SVCD (PBC off) CD MP3 WMA JPEG

■While a disc is being played back

Press REPEAT.

• Each time you press REPEAT, the repeat type will be changed (The repeat type differs depending on the disc type).

Display on the TV screen	Display in the display window on the main unit	Repeat types
TITLE	REPEAT TITLE ALL	Repeats the current title
ALL or REPEAT ALL	REPEAT ALL ALL	Repeats all tracks*1
GROUP*2 or REPEAT GROUP	REPEAT GROUP GROUP*2	Repeats the current group*3
CHAP*4	REPEAT CHAP*4	Repeats the current chapter
TRACK*4 or REPEAT TRACK	REPEAT TRACK*4	Repeats the current track
OFF or no display	REPEAT OFF	Cancels repeat

*1 During the program playback, all programs are repeated.

*2 While the original program of a DVD VR is played back, "PG" is displayed. While the play list of a DVD VR is being played back, "PL" is displayed.

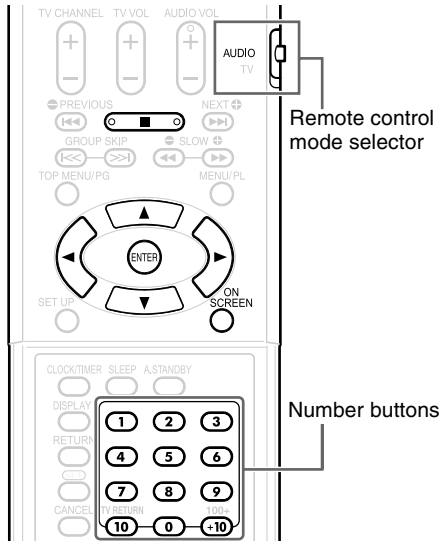
*3 The current title is repeated for a DVD VR.

*4 "STEP" is displayed during program playback or random playback.

NOTE

- You can also operate this function on the menu bar except when using this function with an MP3,WMA or JPEG disc (☞ page 35).
- Repeat playback is automatically canceled for an unplayable MP3,WMA or JPEG discs.
- For details on A-B repeat (repeat playback of a designated part), refer to page 36.

Status Bar and Menu Bar



DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD

You can display the status bar and menu bar on the TV screen, and can control discs with the bars.

CAUTION

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

Using the Status Bar and Menu Bar

■While a disc is being played back

1 Press ON SCREEN twice.

- The above is an example for a DVD VIDEO.

2 Press ◄ ► to select an item you want to operate.

3 Press ENTER.

- You can set the selected function. For the setting items, refer to the following "Function list".
- The currently active function shows blue.
- To cancel the menu bar, press ON SCREEN.

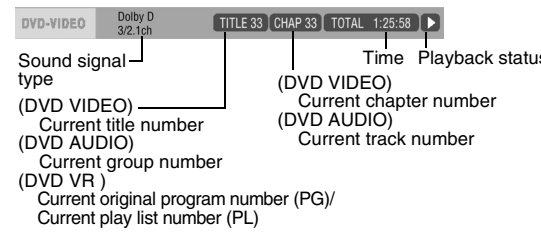
Function list

Press ▲ ▼ to select, and press ENTER to determine unless otherwise noted.

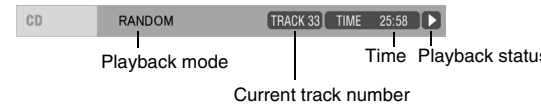
TIME Time display selection	Changes time information displayed in the display window on the main unit and the status bar. Each time ENTER is pressed, the display will be changed. **DVD VIDEO/DVD AUDIO** TOTAL: Elapsed playing time of current title/group T.REM: Remaining time of current title/group TIME : Elapsed playing time of current chapter/track REM : Remaining time of current chapter/track **DVD VR** TOTAL: Elapsed playing time of original program/play list T.REM: Remaining time of original program/play list **CD/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	page 34
Time search	page 36
CHAP. / TRACK Chapter search/ Track search	**DVD VIDEO/VCD/DVD VR** Selects a chapter/track. Press the number buttons to enter the chapter/track number and press ENTER. Examples: 5: 5 24: 2 → 4
Audio	**DVD VIDEO/DVD AUDIO/DVD VR/ VCD/SVCD** page 28
Subtitle	**DVD VIDEO/DVD VR/SVCD/ DVD AUDIO** page 29
1/3 View angle	**DVD VIDEO/DVD AUDIO** page 29
PAGE -/- Page switch	**DVD AUDIO** Switches the still pictures (B.S.P.) recorded on a DVD AUDIO disc. page 32

Information displayed on the status bar

DVD VIDEO/DVD AUDIO/DVD VR (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 23).

Playing Back the Designated Part Repeatedly (A-B Repeat Playback)

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD (PBC off)

■While a disc is being played back

1 Press ON SCREEN twice.

- The menu bar (☞ page 35) appears.

2 Press ◄ ► to select ↻ OFF.

3 Press ENTER.

4 Press ▲ ▼ to select A–B.

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

- The icon on the menu bar will be ↻ A-.

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

- The icon on the menu bar will be ↻ A-B.

"↻ A-B" appears in the display window on the main unit and the part between A and B points is played back repeatedly.

Canceling A-B repeat playback

- To cancel A-B repeat playback:
  - Press ■.
  - Select ↻ A-B and press ENTER twice. (Select ↻ OFF.)

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.

Designate the Time (Time Search)

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD (PBC off)

■While a disc is being played back

1 Set the remote control mode selector to AUDIO.

2 Press ON SCREEN twice.

- The menu bar appears (☞ page 35).

3 Press ◄ ► to select 🕘➡.

4 Press ENTER.

5 Enter the time using the number buttons (1 - 9, 0).

Example: When you want to play back a disc from the position of (0 hour) 23 minutes 45 seconds, press the buttons in the order:
0 → 2 → 3 → 4 → 5

- You can skip entering "minutes" and "seconds".
- If you enter wrong numbers, press ◄ to delete the numbers, and then enter the numbers again.

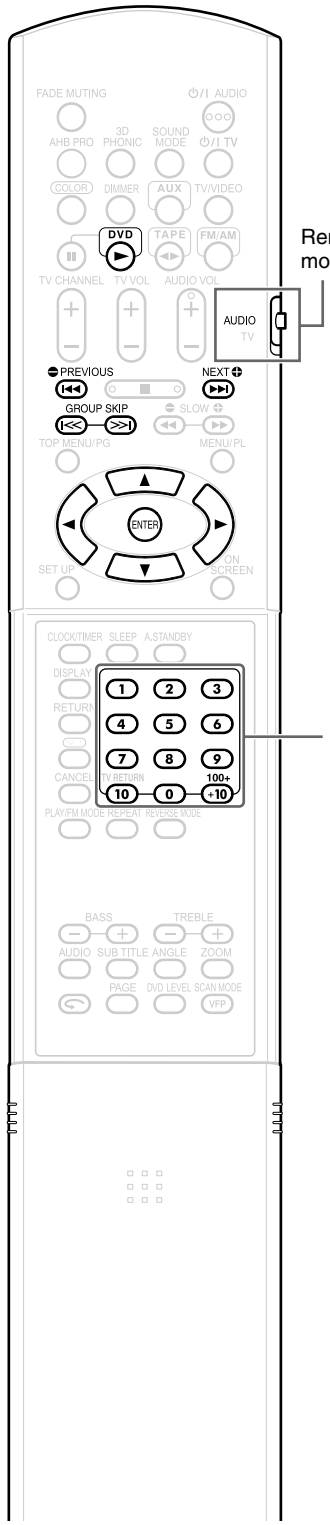
6 Press ENTER.

- To delete the menu bar, press ON SCREEN.

NOTE

- This operation may not work with some discs.
- This function does not work during program playback or random playback.
- For a CD, this operation can always be carried out.
- Time search for a DVD VIDEO is from the beginning of the title, for a DVD AUDIO is from the beginning of the track being played back. Time search for a VCD, SVCD and a CD is as follows:
  - When the disc is stopped, time search is from the beginning of the disc.
  - When the disc is being played back, time search is within the track currently being played back.

Playing Back MP3/WMA and JPEG Discs



NOTE

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

Playback

MP3 WMA JPEG

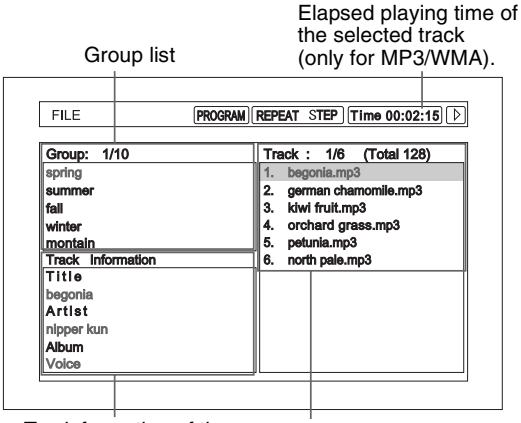
Display of an MP3/WMA disc is described here as an example.
For a JPEG disc, read "track" as "file".

NOTE

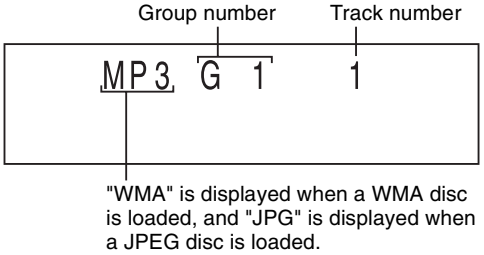
- When playing back a disc containing both MP3/WMA and JPEG files, set one of them to be played (☞ "FILE TYPE" on page 39).

1 Insert a disc.

Example: For MP3
• TV screen



Example: For MP3
• Display window



2 Press ▲ ▼ to select a group.

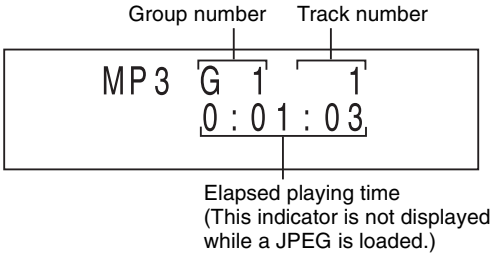
3 Press ► to move to the track list.

• Pressing ◄ returns to the group list.

4 Press ▲ ▼ to select a track.

5 Press DVD ► or ENTER.

Example: For MP3 (during playback)



- At first, a track title (file name) is scrolled.
- When an MP3 or WMA is loaded, tag information (title/artist/album) is scrolled followed by a track title.
- Only alphanumerical one-byte characters are displayed properly as a track title or tag information.

NOTE

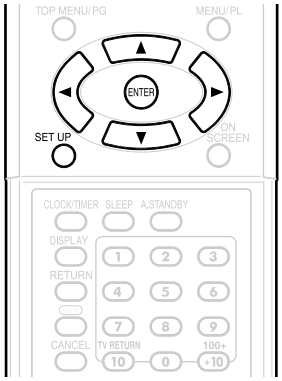
- You can also use GROUP SKIP ◄◄ ►►| in step 2.
- You can also use the number buttons in step 4. In this case, steps 3 and 5 are not needed. Refer to "Using the number buttons" (☞ page 16).
- You can also use PREVIOUS |◄◄ or NEXT ►►| in step 4. In this case, step 3 is not needed.

Slide-show playback JPEG

- For a JPEG disc, when you press DVD ► in step 5, files are continuously played back from the selected file (slide-show playback). When you press ENTER, only a selected file is played back.
- A file is displayed for approximately 3 seconds in a slide-show playback.
- After all files are played back, the playback is automatically stopped.

Preferences

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA JPEG



You can change the initial settings of this product according to the environment the product is used in.

NOTE

- The top and bottom of the preference screen may not be displayed on a wide TV. Adjust the picture size on the TV.

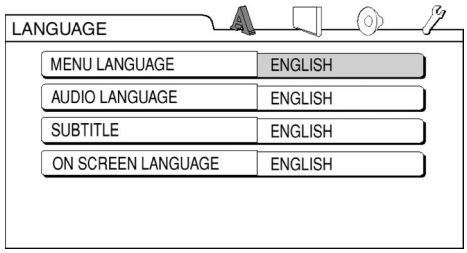
Basic Operations

This section explains basic operation for changing various settings.

■While a disc is stopped or no disc is loaded (while "NO DISC" is displayed)

1 Press SET UP.

- "SETTING" appears in the display window on the main unit and the following screen appears 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 appears.
- For a language code such as "AA", refer to the "Language Codes" (☞ page 41).

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

PICTURE

Items	Contents (: initial setting)
MONITOR TYPE	Select a display method suitable for your TV. **16 : 9 /16 : 9 MULTI (wide TV):** Select this item when the aspect ratio of your wide TV is fixed to 16:9 (when playing back a DVD VIDEO recorded at 4:3, this product automatically adjusts the screen width of the output signal). **4 : 3 LB/4 : 3 MULTI LB (letter box) :** Select this item when the aspect ratio of your TV is conventional 4:3. While viewing a wide screen picture, the black bars appear on the top and bottom of the screen. **4 : 3 PS/4 : 3 MULTI PS (pan scan):** Select this item 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 the pan scan, the picture will be displayed at the letter box ratio.)
PICTURE SOURCE	Select an item suitable to the video source. **AUTO:** The video source type (a video or film) is automatically selected. **FILM:** Select this item when you want to view a film or video recorded with the progressive scan method. **VIDEO:** Select this item when you want to view a normal video.
SCREEN SAVER	Select the screen saver mode between **ON**/**OFF** (screen saver activates when there is no operation made for about 5 minutes since a still picture was last displayed).
FILE TYPE	If a disc includes an **AUDIO** file (MP3/WMA) and a **STILL PICTURE** file (JPEG), select which file is played back.

AUDIO

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

OTHERS

Items	Contents (: initial setting)
RESUME	Select **ON** or **OFF**. (☞ page 25)
ON SCREEN GUIDE	Select whether you display guide icons on the on-screen guide indicating status of a disc/ main unit. (For details on the guide icons, refer to page 24)
AV COMPU LINK MODE	When you want to control JVC TV by using this product, select a mode that matches the terminal from the following. (For more details, refer to "Using AV COMPU LINK" on page 51.) **DVD1 :** Connect to the video-3 input on the TV set or the DVD input on the amplifier. **DVD2:** Connect to the video-1 input of the TV set. **DVD3:** Connect to the video-2 input of the TV set.

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

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

NOTE

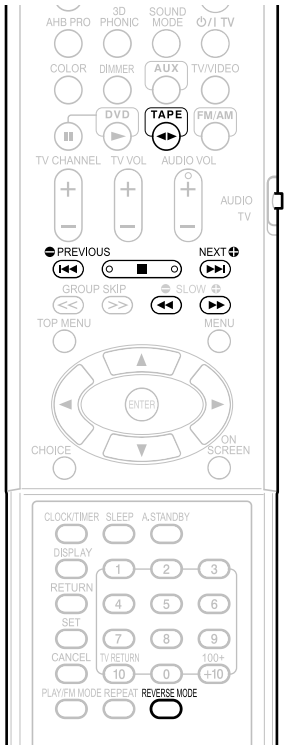
* Copyright-protected DVD AUDIOs do not output signals.
• Among DVD VIDEOs without copyright protection, there may be some DVD VIDEOs that output a 20- or 24-bit signal through the digital audio output terminals.
• Sound sources other than those shown in the table above do not output signals.

Language Codes

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

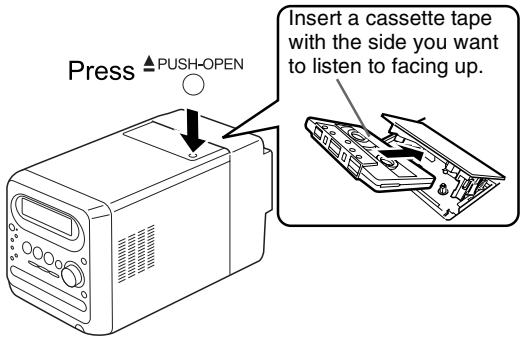
Listening to Cassette Tapes

Used frequently

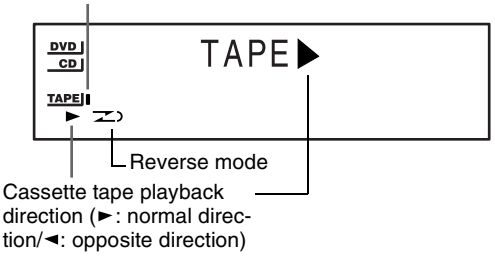


	Operation
Stop	Press ■.
Fast forward/ Rewind	Press NEXT or PREVIOUS. • When a cassette tape is played back in the normal direction (►), NEXT is fast forward and PREVIOUS is rewind. • When the cassette tape is played back in the opposite direction (◄), PREVIOUS is fast forward and NEXT is rewind. • You can perform the same operation by pressing ◄◄ or ►►.

1 Insert a cassette tape.



Cassette tape indicator
(The cassette tape indicator lights up while the cassette tape is stopped. The cassette tape indicator flashes while the cassette tape is being played back.)



CAUTION

- Before using a cassette tape, wind up any slack in the cassette tape. (☞ "Handling casette tapes" on page 52)
- Do not use long cassette tapes such as C-120 or C-150. Long cassette tapes are thin and stretch easily, and may become tangled in the inner part of the main unit.
- This product is compatible with playback of TYPE I cassette tapes. Playback of TYPE II or TYPE IV cassette tapes is not recommended, because this product does not meet the specifications for these tapes. The main unit does not produce the proper sound from these cassette tape types.

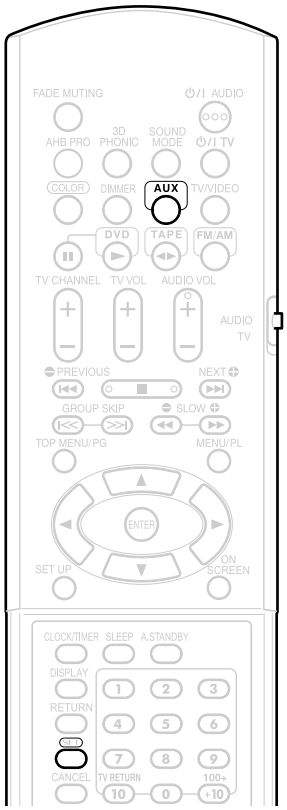
2 Press REVERSE MODE repeatedly to select the reverse mode.

- : For one return playback of both sides.
- : For repeated playback of both sides (Playback continues until playback is stopped.)
- : For one-way playback of either side.

3 Press TAPE.

- Playback starts.
- When the main unit is turned off, pressing TAPE automatically turns on the main unit.
- Each time you press TAPE, the cassette tape playback direction changes. The initial playback direction after you have inserted a cassette tape is always the normal direction.
- The cassette tape playback direction indicator facing right ► is displayed during normal playback. The indicator facing left ◄ is displayed during reverse playback.

Listening to Other Equipment



1 Press AUX.

2 Start other equipment playback.

- Refer to the operation manual for the connected equipment.

3 Adjust the volume and make other necessary settings.

- For adjusting the volume and making other necessary settings, refer to "Basic Operations" (☞ page 17).

Adjusting the Sound Input Level from Other Equipment

You can adjust the sound input level from the connected equipment.

- While the sound source is selected to AUX, you can adjust the sound input level.

Hold down SET until the input level appears.

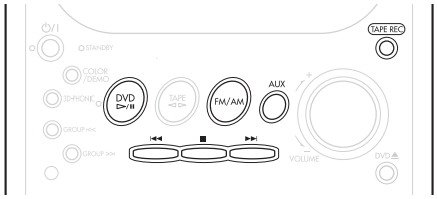
- Each time you hold down SET, the display changes as follows.

LEVEL 1 : For ordinary use. (factory setting)

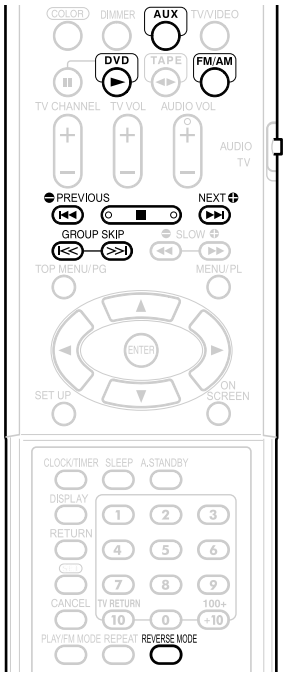
LEVEL 2 : For increasing the input level from the connected equipment.

Recording Sound to Cassette Tapes Used frequently

Main unit



Remote control



NOTE

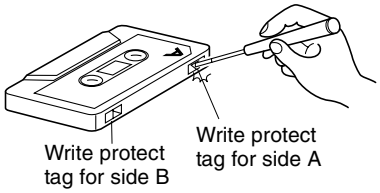
- The sound input level during recording is automatically adjusted.
- When you record tracks from a disc, a 4-second blank is inserted between tracks in the recording. You can record tracks with no blank time.
  (☞ "Recording with No Blank Time between Tracks" on page 45)

CAUTION

- **It may be unlawful to record or playback copyright material without the consent of the copyright owner.**
- Do not use long cassette tapes such as C-120 or C-150. Long cassette tapes are thin and stretch easily, and may become tangled in the inner part of the main unit.
- Since this product is not compatible with TYPE II and TYPE IV cassette tapes, do not use these types of cassette tapes. This product does not meet the specifications for these tapes, so sound is not properly recorded to these types of cassette tapes. You cannot obtain proper playback sound.

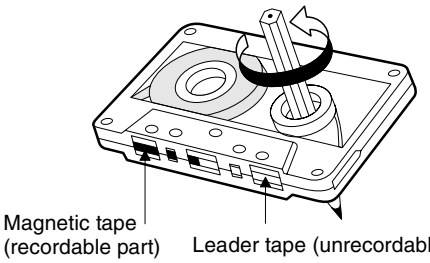
Preventing recorded sound from being erased

- Write protect tags are attached to a cassette tape for preventing the erasing of recorded sound. They enable you to avoid losing important recordings because once you snap off the write protect tags, you cannot record to the cassette tape or erase recorded material.
- When you want to use the cassette tape for recording again, cover the tag holes with adhesive tape.



1 Insert a cassette tape for recording.

- Before inserting the cassette tape, wind the tape past the leader part of the cassette tape.



2 Press REVERSE MODE to select the reverse mode.

- Each time you press REVERSE MODE, the display changes as follows.

: For one-way recording on either side.

: For one return recording on both sides.

: Pressing TAPE REC on the main unit in step 4 sets the reverse mode to automatically.

- You can change the reverse mode during recording.

(Continued on next page)

For the locations of remote control buttons, refer to page 44.

3 Select a sound source for recording.

• Before selecting a sound source, **make sure to stop a disc**.

Sound source	Operation
Disc	Press DVD, and then press ■.
Radio broadcast	Select the radio station whose broadcast you want to record (☞ page 21).
Sound from other equipment (AUX)	Press AUX and prepare playback on the other equipment (☞ page 43).

4 Press ◯ TAPE REC on the main unit.

Example: Display while CD sound is recorded

• When you record from a disc, **all tracks are recorded to the cassette tape**.
• When you want to record sound from other equipment, start playback on the connected equipment.
• When recording finishes, the color of the display window, the disc tray and the circumference of the VOLUME control switches to red to inform you that recording has ended.

Quitting Recording

Press ■.

Recording Only One Track from a Disc

Before proceeding to step 4, play back the track you want to record.

• Pressing ◯ TAPE REC in step 4 returns playback to the beginning of the track and only that track is recorded.
• This one-track recording is not available for DVD VIDEOs or DVD VRs.

Recording the Second or Subsequent Track to the Last Track from a Disc

(For a DVD VIDEO or DVD VR: while the playback is paused)
(For DVD VR: only when recording in original program)

■For a CD/VCD/SVCD/DVD VIDEO

Before proceeding to step 4, select the starting track/chapter number by pressing PREVIOUS ⏮ or NEXT ⏭.

■For a DVD AUDIO/MP3/WMA

Before proceeding to step 4, select the group number by pressing GROUP SKIP ⏪ or GROUP SKIP ⏩, and then select the track number by pressing PREVIOUS ⏮ or NEXT ⏭.

Program Recording from a Disc

Before proceeding to step 4, program the tracks you want to record (☞ page 32).

Recording with No Blank Time between Tracks

Before proceeding to step 4, play back a disc, pause the playback, and then press PREVIOUS ⏮ to return to the beginning of the first track.

Erasing Recorded Sound from a Cassette Tape

Select the sound from other equipment (AUX) in step 3, and then press ◯ TAPE REC.

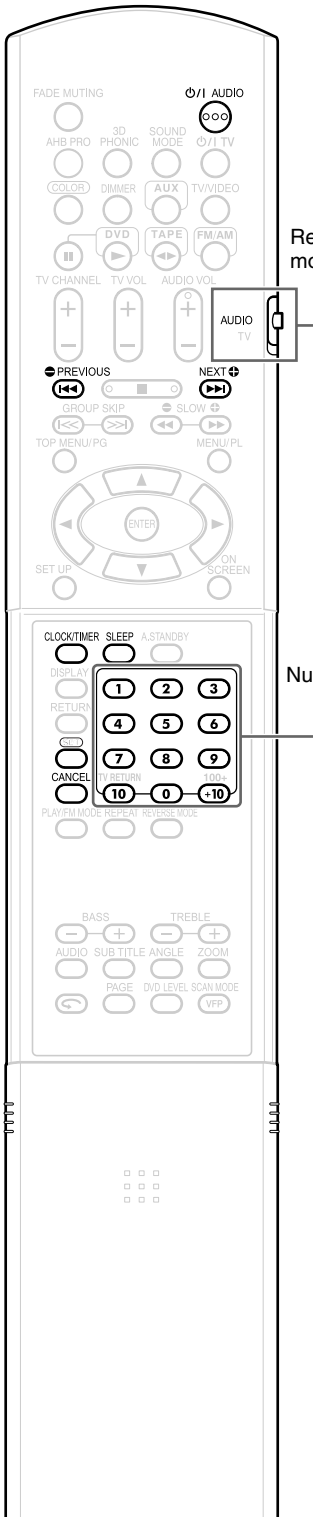
• Do not play back any tracks on the connected equipment.

NOTE

• If the cassette tape reverses direction while a track is being recorded from a disc, that track is recorded again from the beginning on the reverse side of the tape. However, if 12 or less seconds of that track were recorded on the first side of the tape, recording on the reverse side of the tape starts from the beginning of the previous track.

Using the Timers

Set the clock beforehand (☞ page 16).



NOTE

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

Sleep Timer

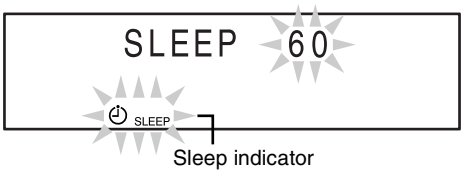
When the specified time passes, the main unit automatically turns off.

Press SLEEP.

- Each time you press SLEEP, the time display (in minutes) changes as follows.

→ 10 → 20 → 30 → 60 → 90 →
Cancel (Sleep indicator disappears.) ← 150 ← 120 ←

Example: Display while the sleep timer is set to 60 minutes



Sleep indicator

NOTE

- When you set the sleep timer, the display window automatically dims.
- Before the clock has been set (While "0:00" is flashing), when you press SLEEP, "CLOCK ADJUST!" appears.

Changing the sleep timer setting

Press SLEEP repeatedly to select the time again.

Confirming the sleep timer setting (remaining time)

With the sleep timer activated, press SLEEP once.

Recording Timer

You can use the recording timer function to record FM/AM broadcasts or sound from other equipment to cassette tape.
You can enter up to three timer settings in total for the recording timer and the playback timer (☞ page 48).

NOTE

- Timer settings remain unchanged until the timer is replaced by new setting.

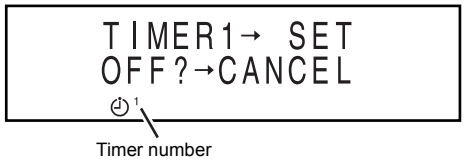
1 Prepare the sound source.

Radio	Preset the radio station whose broadcast you want to record. (☞ page 20)
Other equipment	Follow the operation manual for the equipment.

2 Insert a cassette tape. (☞ page 42)

3 Press CLOCK/TIMER repeatedly to select "TIMER1", "TIMER2" or "TIMER3".

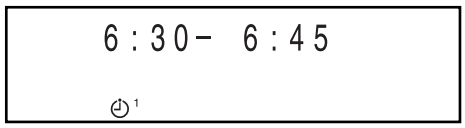
Example: When "TIMER1" is selected



4 Press SET.

5 Press PREVIOUS, NEXT and SET to set the starting time and ending time.

Example:To set the recording time from 6:30 a.m. to 6:45 a.m.



- You can use the number buttons to set the recording time. Refer to "Using the number buttons" (☞ page 16).
- For setting the time, refer to "Setting the Clock", step 2 to 5 (☞ page 16).

Entering the "hour" → SET → Entering the "minute" → SET

6 Press PREVIOUS or NEXT to select "ONCE" or "WEEKLY".

ONCE : The recording timer works once.

WEEKLY : The recording timer works weekly or every day.

7 Press SET.

8 Press PREVIOUS or NEXT to select the desired day of the week.

- Each time you press PREVIOUS or NEXT, the display changes as follows.

When "ONCE" is selected.

Sun. ↔ Mon. ↔ Tue. ↔ Wed. ↔ Thu. ↔ Fri. ↔ Sat. ↔ (Sun.)

When "WEEKLY" is selected.

Sun. ↔ Mon. ↔ Tue. ↔ Wed. ↔ Thu. ↔ Fri. ↔ Everyday (The recording timer works every day.) ↔ Mon. – Sat. (The recording timer works Monday to Saturday.) ↔ Mon. – Fri. (The recording timer works Monday to Friday.) ↔ Sat. ↔ (Sun.)

9 Press SET.

10 Press PREVIOUS or NEXT to select "REC TIMER".

- "REC" stands for "Recording".

11 Press SET.

12 Press PREVIOUS or NEXT to select a sound source.

Example: To record an FM broadcast to a cassette tape

- When you want to record sound from other equipment, you cannot use the recording timer function to start playback on any equipment other than this product.

■When you want to record an FM/AM radio broadcast

- Press SET, and then press PREVIOUS, NEXT or the number buttons to select the preset number of the radio station whose broadcast you want to record (☞ page 21). Refer to "Using the number buttons" (☞ page 16).

13 Press SET.

- The settings appear in the display window. Confirm the settings.

14 Press ⏻/I AUDIO to turn off the main unit.

- While the recording timer is functioning, the volume is set to "0" and no sound is produced from the speakers or headphones.
- The recording timer is available only when the main unit is turned off.

NOTE

- During operation, you can return to the previous step by pressing CANCEL. You can quit the recording timer settings by pressing CLOCK/TIMER. The settings are not stored.

Canceling the recording timer

In step 2 on page 47, select the timer number you want to cancel, and then press CANCEL.
Even when you cancel the recording timer, the setting remains stored.

Activating the recording timer again

In step 2 on page 47, select the timer number you want to activate, and press ENTER. Then turn off the main unit.

Confirming the recording timer

In step 2 on page 47, press SET repeatedly. If you want to quit checking the recording timer, press CLOCK/TIMER.

Changing the recording timer

Set the recording timer again from step 1 on page 47.

NOTE

- When you want to activate two or three recording timers, leave a blank time of 2 or more minutes between the ending time of the first recording timer and the starting time of the second recording timer. If the blank time is less than 2 minutes, the second recording timer does not work.
- When the power plug is disconnected or the power is interrupted, the recording timer settings may be lost. If the settings are lost, set the clock and recording timer again.

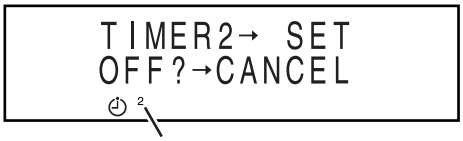
Playback Timer

1 Prepare the sound source you want to play back.

Disc	Make sure that a disc is loaded. (☞ page 22)
Cassette tape	Insert a cassette tape. (☞ page 42)
Radio	Preset the radio station whose broadcast you want to listen to. (☞ page 21)
Other equipment	Follow the operation manual for the equipment.

2 Press CLOCK/TIMER repeatedly to select "TIMER1", "TIMER2" or "TIMER3".

Example: When "TIMER2" is selected

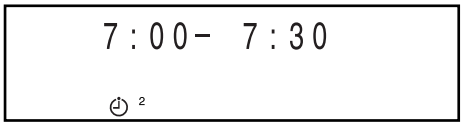


Timer number

3 Press SET.

4 Press PREVIOUS, NEXT and SET to set the starting time and ending time.

Example: When you want to set the playback time from 7:00 a.m. to 7:30 a.m.



- You can use the number buttons to set the playback time. Refer to "Using the number buttons" (☞ page 16).
- For setting the clock, refer to steps 2 to 5 in "Setting the Clock" (☞ page 16).

Entering the "hour" → SET → Entering the "minute" → SET

5 Press PREVIOUS or NEXT to select "ONCE" or "WEEKLY".

ONCE : The playback timer works once.
WEEKLY : The playback timer works weekly or every day.

6 Press SET.

(Continued on next page)

7 Press PREVIOUS or NEXT to select the desired day of the week.

Each time you press PREVIOUS or NEXT, the display changes as follows.

When "ONCE" is selected.

Sun. ↔ Mon. ↔ Tue. ↔ Wed. ↔ Thu. ↔ Fri. ↔ Sat. ↔ (Sun.)

When "WEEKLY" is selected.

Sun. ↔ Mon. ↔ Tue. ↔ Wed. ↔ Thu. ↔ Fri. ↔ Everyday (The playback timer works every day.) ↔ Mon. – Sat. (The playback timer works Monday to Saturday.) ↔ Mon. – Fri. (The playback timer works Monday to Friday.) ↔ Sat. ↔ (Sun.)

8 Press SET.

9 Press PREVIOUS or NEXT to select "PLAY TIMER".

10 Press SET.

11 Press PREVIOUS or NEXT to select the sound source you want to play back.

Example: When you want to listen to an AM broadcast

- When you want to listen to sound from other equipment, you cannot use the playback timer function to start playback on any equipment other than this product.
- You cannot use the playback timer function together with program playback, repeat playback, random playback, or group playback.

■When you want to listen to an FM/AM radio broadcast

- (With "FM" or "AM" selected) Press SET, and then press PREVIOUS, NEXT or the number buttons to select the preset number of the radio station whose broadcast you want to listen to (☞ page 21). Refer to "Using the number buttons" (☞ page 16).

■When you want to play back a DVD VIDEO, DVD AUDIO or DVD VR

- (With "DVD/CD" selected) Press SET twice. Regardless of the displayed numbers of group (G) and track (T), you can play back a DVD VIDEO, DVD AUDIO, or DVD VR only from the beginning of the disc.

■When you want to play back a CD, VCD or SVCD

- (With "DVD/CD" selected) Press SET twice, and then press PREVIOUS, NEXT or the number buttons to select the number of a track (T) from which you want to start playback. Refer to "Using the number buttons" (☞ page 16). The group number (G) is ignored.

■When you want to specify a track from which you want to start playback on an MP3 or WMA

- (With "DVD/CD" selected) Press SET, press PREVIOUS, NEXT or the number buttons to select the group number (G) to be played back, press SET, and then press PREVIOUS, NEXT or the number buttons to select the track number (T) to be played back. Refer to "Using the number buttons" (☞ page 16).

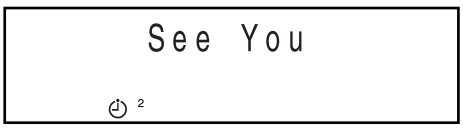
12 Press SET.

13 Press PREVIOUS or NEXT to adjust the playback volume.

14 Press SET.

- The settings appear in the display window.

15 Press ⏻/I AUDIO to turn off the main unit.



- The playback timer is available only when the main unit is off.

NOTE

- During operation, you can return to the previous step by pressing CANCEL. You can quit the playback timer settings by pressing CLOCK/TIMER. The settings are not stored.
- When the playback timer starts, the volume gradually increases to the selected level.

For the locations of remote control buttons, refer to page 46.

Canceling the playback timer function

In step 2 on page 48, select the timer number you want to cancel, and then press CANCEL.
Even when you cancel the playback timer, the setting remains stored.

Activating the playback timer again

In step 2 on page 48, select the timer number you want to activate, and press ENTER. Then turn off the main unit.

Confirming the playback timer

In step 2 on page 48, press SET repeatedly. If you want to quit checking the playback timer,press CLOCK/TIMER.

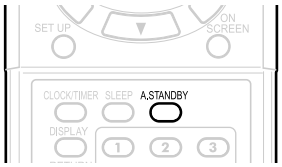
Changing the playback timer

Set the playback timer again from step 1 on page 48.

NOTE

- When you want to activate two or three playback timers, leave a blank time of 2 or more minutes between the ending time of the first playback timer and the starting time of the second playback timer. If the blank time is less than 2 minutes, the second playback timer does not work.
- When the power plug is disconnected or the power is interrupted, the playback timer settings may be lost. If the settings are lost, set the clock and playback timer again.
- When you operate the playback timer with a DVD VIDEO, DVD AUDIO or VCD, sound and video may not be played back automatically. A DVD VIDEO, DVD AUDIO or VCD may contain a disc menu that appears first when played back. Sound or video will not come out before you select the desired item to be played back on the disc menu.

Auto Standby

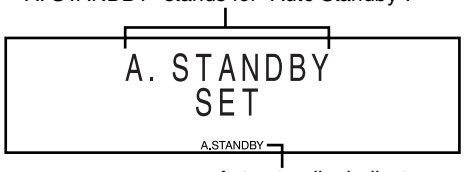


If no sound is produced for 3 minutes when the disc or cassette tape is selected as a sound source, the main unit automatically turns off.

■When the disc or cassette tape is selected as a sound source

Press A.STANDBY.

"A. STANDBY" stands for "Auto Standby".



Auto standby indicator

Auto standby performance

When playback or recording finishes, auto standby starts the countdown (the "A. STANDBY" indicator flashes). When no operation is carried out within 3 minutes, the main unit automatically turns off.
When you start playback or recording within 3 minutes, auto standby starts the countdown again after playback or recording finishes.
When an operation other than playback and recording finishes and no operation is carried out within 3 minutes, the main unit automatically turns off.
"A. STANDBY OFF" indicator starts to flash 20 seconds before the main unit is to turn off.

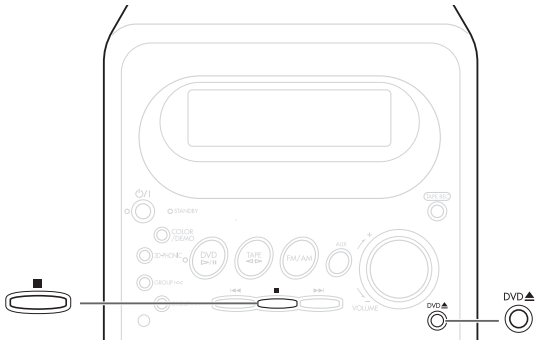
Canceling auto standby

Press A.STANDBY once again.

NOTE

- Leaving the volume at "0" is not the same as producing no sound, and therefore does not start the auto standby function.

Disc Ejection Lock



You can prohibit ejection of a disc.

■When the main unit is turned off

While holding down ■, press DVD ⏏ on the main unit.

LOCKED

Even if you press DVD ⏏, "LOCKED" appears in the display window and the disc does not come out. In addition, when you press DVD ⏏, while the main unit is turned off, "LOCKED" appears in the display window and the main unit does not turn on.

Canceling the disc ejection lock

■When the main unit is turned off

Carry out the operation explained above once again.

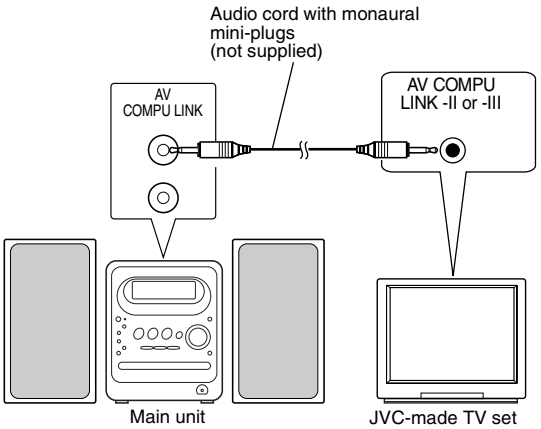
UNLOCKED

Using AV COMPU LINK

The JVC AV COMPU LINK system allows you to enjoy video or audio with the simplest operation. If your JVC TV set supports the JVC AV COMPU LINK system, simply starting the main unit will automatically make all necessary settings on the TV to allow you to enjoy the playback.

Connection and Setting

- Carefully read manuals of equipment to be connected.



Set the main unit's AV COMPU LINK MODE setting (☞ page 40) as follows.

- When connecting to the VIDEO-1 input terminal of the TV: DVD 2
- When connecting to the VIDEO-2 input terminal of the TV: DVD 3
- When connecting to the VIDEO-3 input terminal of the TV: DVD 1

Operations

You can enjoy sound or video simply by starting playback on the main unit. You do not have to select the input setting for the TV, or turn on the TV beforehand.

1 Turn on the main power to the TV.

2 Insert a disc into the main unit.

3 Press DVD on the main unit.

The following operation is performed automatically.

- The TV set will be turned on.
- TV input will be switched to external input (Video 1, 2 or 3) of the main unit.

When you turn off the main unit, power to the TV is not turned off.

Handling Discs/Cassette Tapes

Handling discs

- Do not put adhesive tape or stickers, or write on a disc.
- Do not bend a disc.
- Be sure not to use heart/flower shaped discs or other irregularly shaped discs. The use of such discs damages the main unit.

Cleaning discs

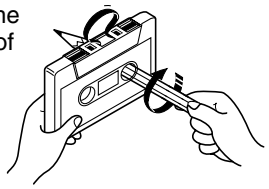
Wipe a disc from the center outward with a soft cloth.

Scratches concentrated on a certain part cause sound dropout.

- Be sure not to use thinners, benzenes, cleaners for analog records, or other chemical agents.

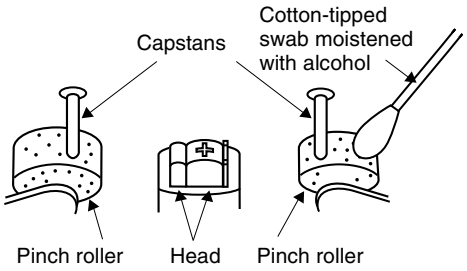
Handling cassette tapes

- A slack tape may become caught in the inner part of the main unit and damage the main unit. Before using a cassette tape, wind up any slack in the cassette tape as shown on the right. Do not pull out the tape or touch the tape's surface.



Cleaning the tape deck head

- Clean the head, pinch rollers and capstans approximately every 10 hours of playback time before the volume falls or sound quality deteriorates



Cleaning the main unit cabinet

- Gently dust the cabinet surface with a soft dry cloth. When the cabinet is very dirty, dampen the cloth with a neutral detergent diluted with water, wring out the cloth well, and then wipe the cabinet with the dampened cloth followed by a soft dry cloth.
- Do not wipe the cabinet with thinners or benzenes. Wiping it with these agents may cause discoloration of the cabinet or removal of the paint. Do not spray insecticides or other highly volatile agents onto the cabinet. Do not leave pieces of rubber or plastic on the cabinet for a long period.

Disc Messages

Disc message	Meaning	Possible solution
CANNOT PLAY	You are trying to play back an unplayable disc or a disc that has many scratches.	Replace the disc.
NO DISC	No disc is loaded.	–
NO AUDIO	The disc may be an illegally copied disc.	You cannot listen to the disc.
LR ONLY	You are playing back a multi-channel track for which down-mix is prohibited.	This is normal operation.

Troubleshooting

Problem	Possible cause	Possible solution	Reference page
No sound/video is produced.	Improper connection.	Connect all cords properly as in "Connections".	11 - 15
	Headphones are connected.	Disconnect the headphone plug.	8
The clock display is flashing.	A power failure occured or the power plug was disconnected.	Reset the clock.	16
Disc playback does not start.	The disc is upside down.	Place the disc on the disc tray with the letter-printed surface facing up.	22
	Moisture has condensed on the lens.	Leave the main unit turned on, wait for approximately 1 or 2 hours, and then operate the main unit.	3
A certain point cannot be played back properly.	The disc is scratched or dirty.	Clean or replace the disc.	52
The volume of cassette tape playback is low.	The head or capstans are dirty.	Clean the head or capstans.	52
You cannot record a cassette tape.	The cassette tape is write-protected.	Cancel the write-protection.	44
A radio broadcast cannot be received.	No antenna is connected.	Connect an antenna.	11
A whirring noise is produced.	The main unit is located close to a TV, computer, or other electric appliance.	Place the main unit away from a TV, computer, or other electric appliance.	3
The timer does not work.	You did not set the clock.	Set the clock.	16
	The main unit is turned on.	After setting the timer, turn off the main unit.	48, 49
You cannot operate the remote control.	The remote control batteries are running low.	Replace the batteries with new batteries.	9
You cannot operate the main unit with the number buttons on the remote control.	The remote control mode selector on the remote control is set to TV.	Set the remote control mode selector to AUDIO.	16
A noise comes from the rear of the main unit.	The internal cooling fan produces a noise as it rotates.	The noise is not a malfunction. This is to prevent excessive heat.	13, 17

● **If this product does not function properly even after you have implemented the possible solutions given above**

Many functions of this product are implemented by microcomputers. If malfunction is caused by thunder or static electricity, or the main unit does not function properly even when you press a button, disconnect the power plug from the AC outlet, wait for a while, and then connect this product again. Then reset the clock**.**

Specifications

■DVD receiver (CA-UXQD90S)

Output power	20 W × 2 (10% THD/4 Ω)
Input terminal	AUX × 1,
Output terminals	Speaker × 1, 20 W/4 Ω Impedance 4 Ω - 16 Ω Headphone (×1), 25 mW/32 Ω Impedance 16 Ω - 1 kΩ DVD/CD optical output × 1 AV COMPU LINK × 2 (ϕ 3.5)
Tuner Frequency	FM: 87.50 MHz - 108.00 MHz For Saudi Arabia AM: 531 kHz - 1 602 kHz (9 kHz spacing) 530 kHz - 1 600 kHz (10 kHz spacing) For other countries AM: 531 kHz - 1 710 kHz (9 kHz spacing) 530 kHz - 1 710 kHz (10 kHz spacing)
Power requirement	For Saudi Arabia AC 110 / 127 / 220 V∿, 50/60 Hz For other countries AC 110 / 127 / 230-240 V∿, 50/60 Hz
Power consumption	55 W (at operation) For Saudi Arabia 2.5 W (on standby) For other countries 3 W (on standby)
Dimensions	165 mm (W) × 200 mm (H) × 350 mm (D)
Mass (approx.)	4.6 kg

■Speaker (SP-UXQD90S)

System	3-way bass reflex type, Magnetically shielded type
Speakers	Woofer: 10 cm cone speaker × 1 Midrange: 4 cm cone speaker × 1 Tweeter: 1.5 cm dome speaker × 1
Power handling capacity	20 W
Impedance	4 Ω
Frequency range	55 Hz - 40 kHz
Sound pressure level	85 dB/W•m
Dimensions	140 mm (W) × 231 mm (H) × 207.5 mm (D)
Mass (approx.)	2.3 kg (1 unit)

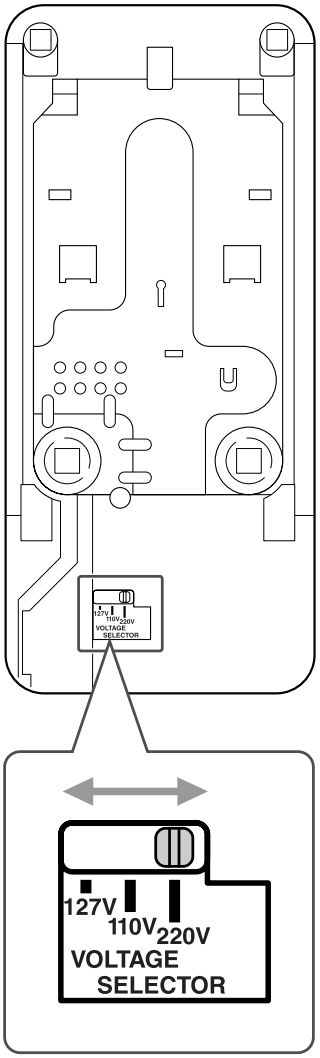
■Micro component DVD system (UX-QD90S)

Dimensions	445 mm (W) × 231 mm (H) × 350 mm (D)
Mass (approx.)	9.2 kg

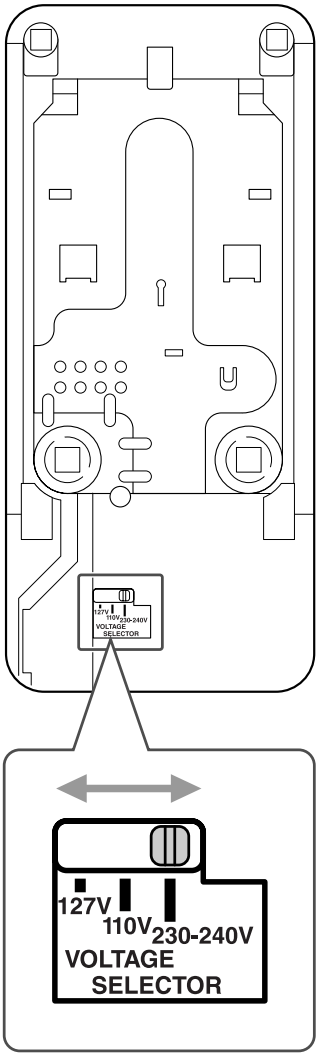
Mains (AC) Line Instruction

Bottom view of the main unit

- **For Saudi Arabia**



- **For other countries**



CAUTION for mains (AC) line
BEFORE PLUGGING IN, do check that your mains (AC) line voltage corresponds with the position of the voltage selector switch provided on the bottom of this equipment and, if different, reset the voltage selector switch, to prevent from a damage or risk of fire/electric shock.

JVC

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