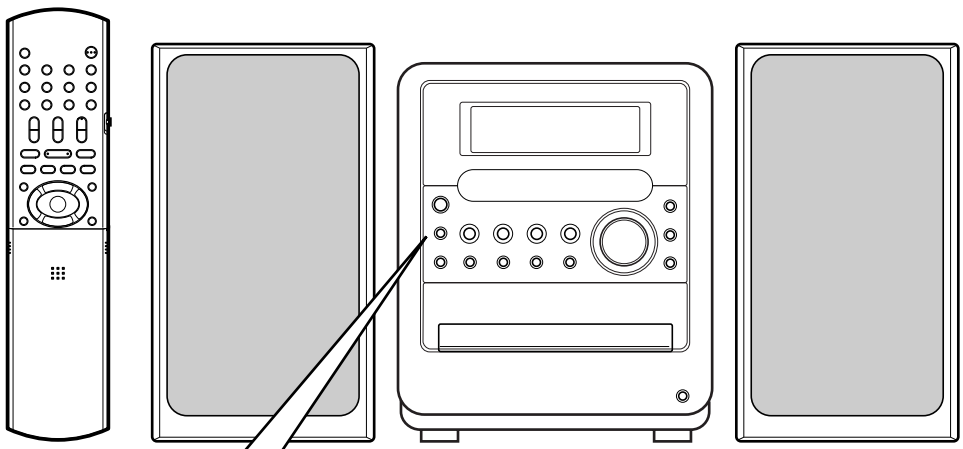
JVC

MICRO COMPONENT SYSTEM

UX-QD9S

Consists of CA-UXQD9S and SP-UXQD9S



For hiding 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

LVT1220-005A
[A]

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

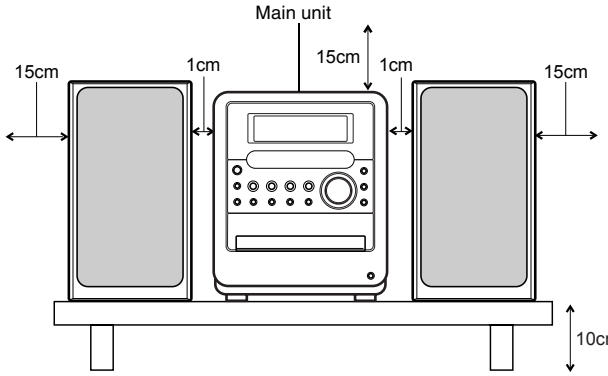
To avoid risk of electric shock and fire and to protect from damage, locate the apparatus as follows:

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

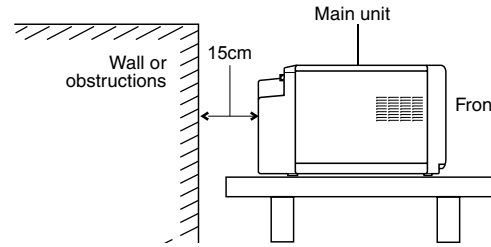
Bottom: Place on the level surface. Maintain adequate air path for ventilation by placing on a stand with a height of 10 cm more.

In addition, maintain the best possible air circulation.

Front view



Side view



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

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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.

Playable Disc Types

This product has been designed to play back the following discs:
DVD VIDEO, DVD AUDIO, VCD, SVCD, CD
This product can also play back the following discs:

- Finalized DVD-R/RW discs recorded in the DVD VIDEO format.
- CD-R/RW discs recorded in the following formats

- Music CDs (finalized discs)
- VCDs
- SVCDs
- MP3/WMA/JPEG discs recorded in ISO 9660 (for details, refer to "About MP3/WMA/JPEG discs")

However, some discs may not be played back because of their disc characteristics, recording conditions, or damage or stain on them.
Only sounds can be played back from the following discs:

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

Discs you can play:

Disc Type	Mark (Logo)	Video Format	Region Code Number*
DVD VIDEO		PAL/ NTSC	4/ALL
DVD AUDIO		—	—
VCD		PAL/ NTSC	—
SVCD		PAL/ NTSC	—
CD		—	—
CD-R		—	—
CD-RW		—	—

DVD Logo is a trademark of DVD Format/Logo Licensing Corporation.

* **Note on Region Code**
DVD players and DVD VIDEOs have their own region code numbers. This product can only play back a DVD VIDEO recorded with the region code number and video format mentioned above.

Examples:

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

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

About CD-Rs/CD-RWs

You can play back a CD-R/CD-RW only when the disc is finalized.

- You can play back a CD-R/CD-RW which has been recorded in the audio CD format and a CD-R/CD-RW to which audio data (MP3/WMA) or a still picture data (JPEG) file is recorded.
  However, 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 CD-R/CD-RW, 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 on this product, erase all tracks if the CD-RW was recorded in a format other than the audio CD format. Using the CD-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, DVD-RAM, DVD-RW (recorded in VR format), CD-ROM, CD-I (CD-I Ready), Photo CD, SACD, etc.
  Playing back these discs will generate noise and damage the speakers.
- Damaged discs and discs in an extraordinary shape (other than a disc of 12 cm or 8 cm in diameter) cannot be played back.
- 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

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

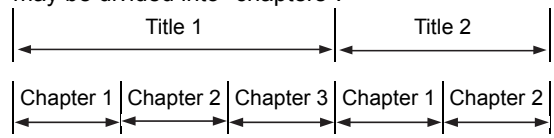
Notes on MP3/WMA/JPEG discs and files

- 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 PC's monitor screen.
- In the case of MP3/WMA discs, since groups/tracks are played back in alphabetical order, an off-the-shelf 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/WMA 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/WMA 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 is applied such as the automatic rotation function of a digital camera, data goes beyond the DCF standard, so the image may not be displayed).
- If data has been processed, edited and restored with PC image editing software, the data may not be displayed.
- This product cannot play back animations such as MOTION JPEG, or still pictures (TIFF etc.) other than JPEG, and 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.
- Files recorded on DVD-R/RW discs cannot be played back.

Disc Structure

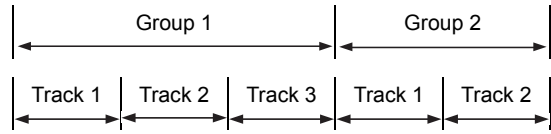
DVD VIDEO

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



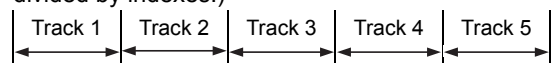
DVD AUDIO

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 30).



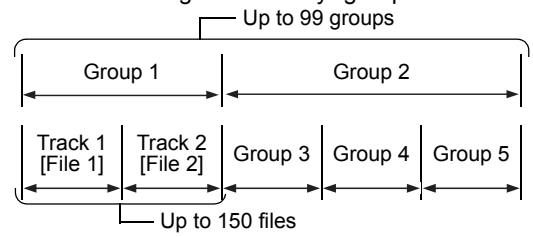
VCD/SVCD/CD

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



MP3/WMA [JPEG] discs

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

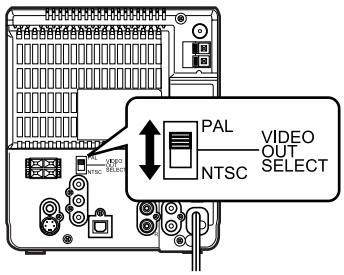


This product can recognize up to 1 000 tracks [files] in a disc. Also, the product can recognize up to 150 tracks [files] per group and up to 99 groups in a disc. Since the unit ignores the tracks [files] whose numbers are exceeding 150 and the groups whose numbers are exceeding 99, they cannot be played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

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

Selecting the Color System

This product is compatible with PAL and NTSC color systems.
In standby mode, select PAL or NTSC to match your TV.
If the VIDEO OUT SELECT switch is switched over when the power is on, turn off the power, and then turn it on again.



Color system of TV	VIDEO OUT SELECT
Multi-color system	PAL or NTSC*
PAL	PAL
NTSC	NTSC

* Set the color system of the unit and TV to match the playback disc.

- 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 38).

NOTE

- If you play back an NTSC disc with this setting set to "PAL", 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.

NOTE

- If you play back a PAL disc with this setting set to "NTSC", 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.

Special Cautions

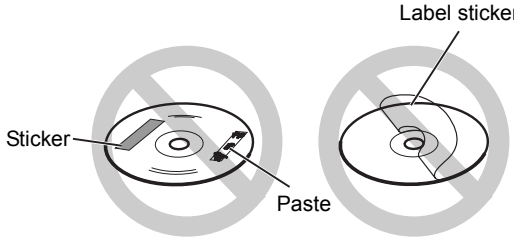
Notes on Handling

■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

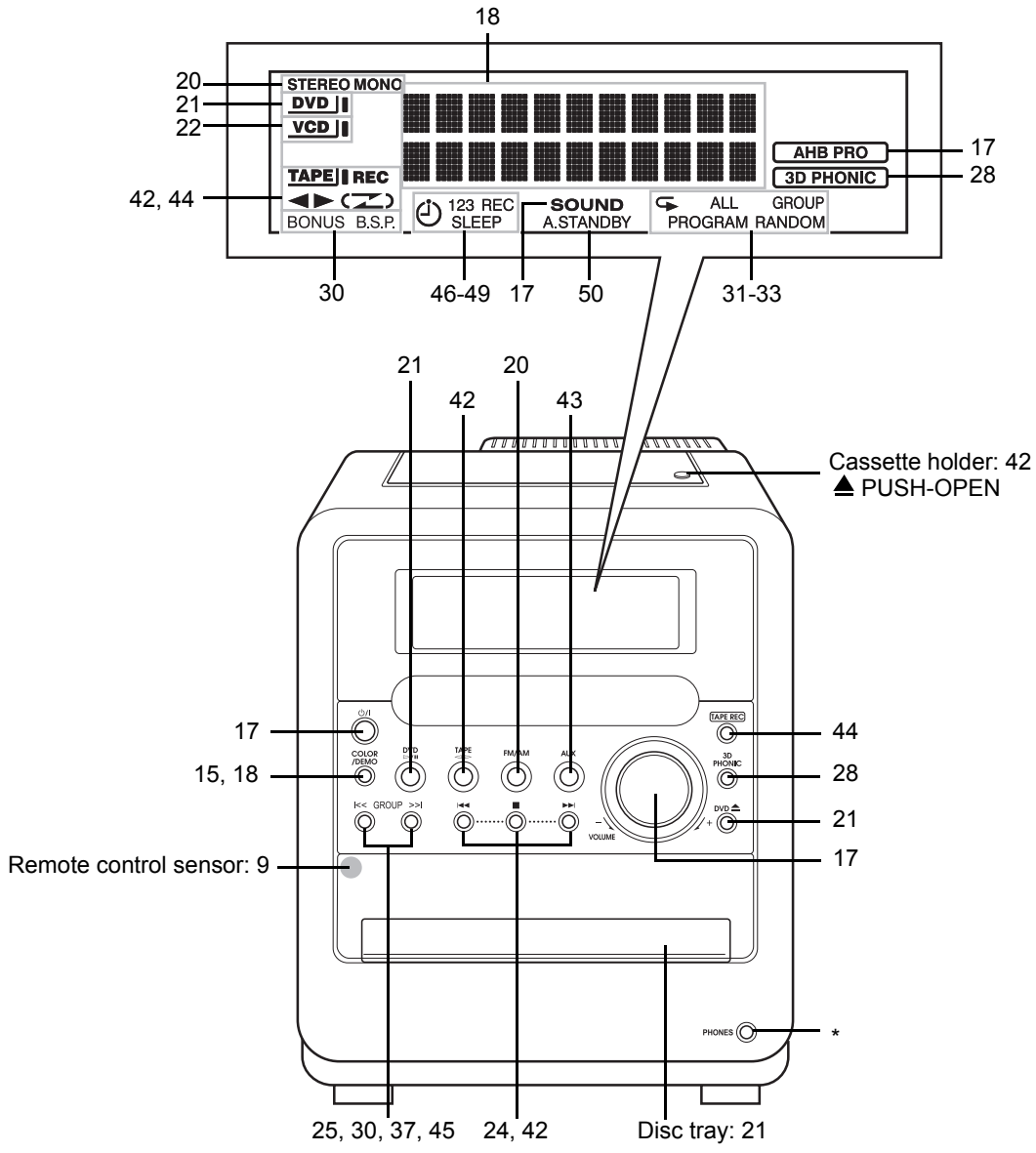
Check to be sure you have all of the supplied accessories.
The number in parentheses is the quantity of the pieces supplied. If anything is missing, contact your dealer immediately.

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.

Part Description

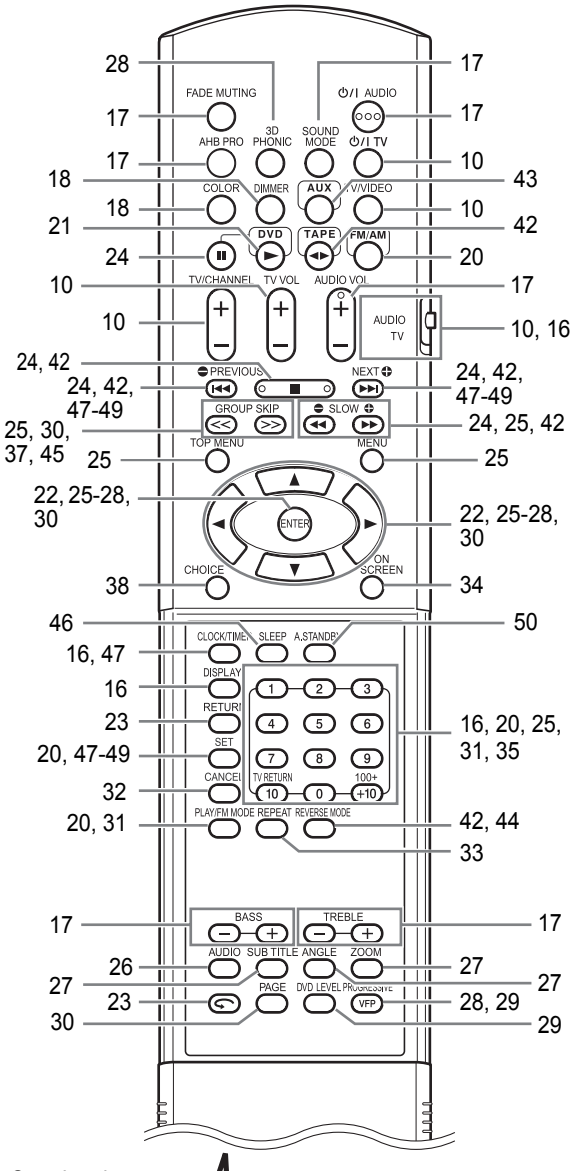
The numbers refer to the pages in which the parts are explained.



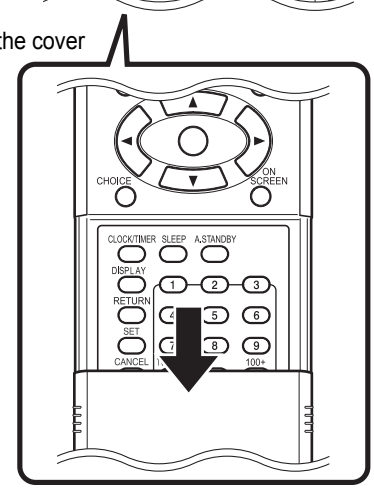
* This terminal is for connecting a pair of headphones equipped with a stereo mini plug (not supplied). While the headphones are connected, the speakers do not produce any sound.

Remote Control

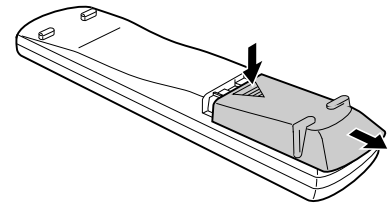
The numbers refer to the pages in which the parts are explained.

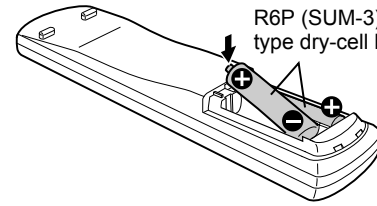


Opening the cover

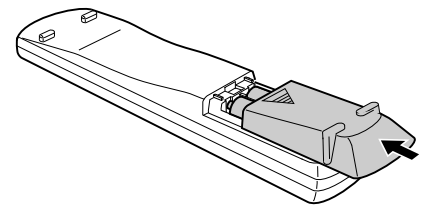


Inserting Batteries into the Remote Control





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



CAUTION

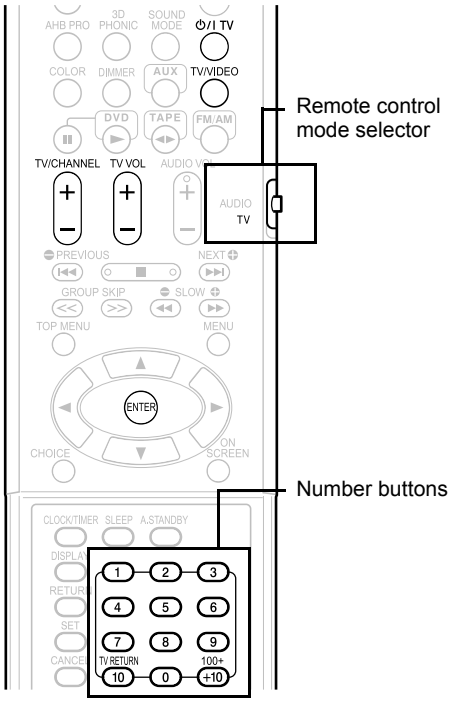
- Do not use a used battery and a new battery together.
- Do not use different types of batteries at the same time.
- Take out the batteries if the remote control is not to be used for a long time. Otherwise it may cause a leakage.

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.

NOTE

- 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 causes the product to work properly.

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

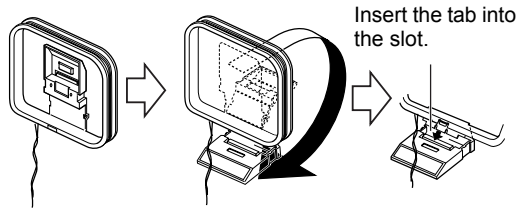
Connections

Connect all necessary parts before connecting the power plug.

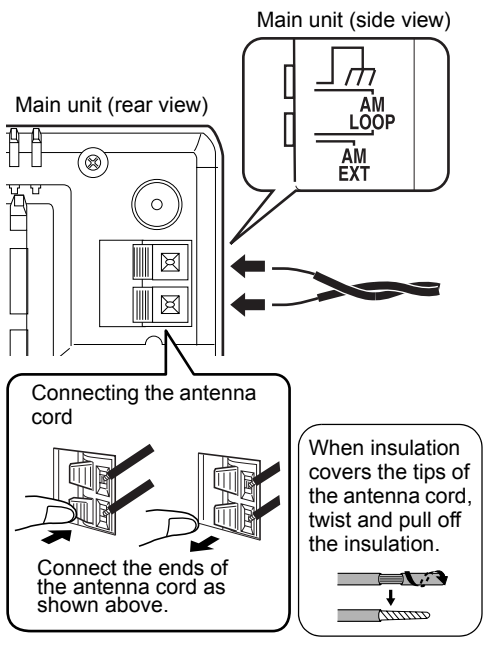
Connecting the Antennas

Connecting the AM antenna

1 Set up the AM antenna (supplied).



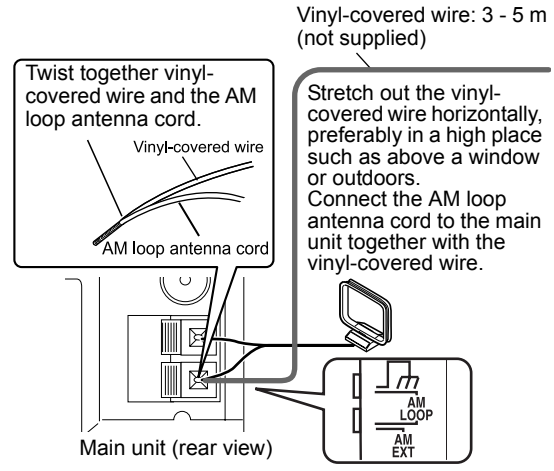
2 Connect the antenna cord.



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.

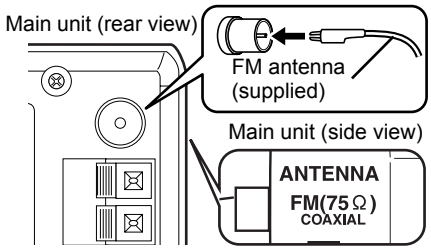
- Do not place the AM loop antenna on a metallic table or close to a TV, computer, or other electric appliances. Doing so may affect radio reception.

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

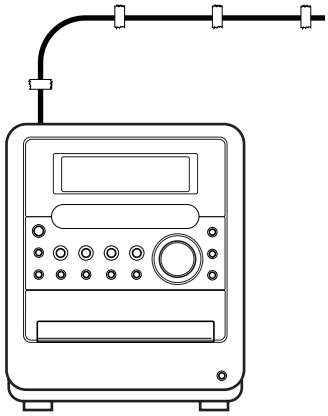


When positioning the antennas, find the best position for reception while listening to an actual radio program (refer to "Listening to Radio Broadcasts" (☞ page 19)).

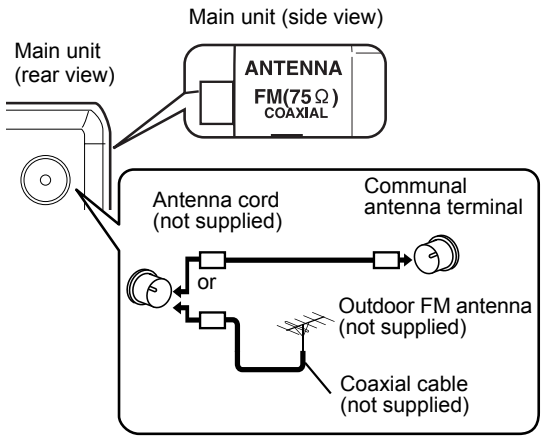
Connecting the FM antenna



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

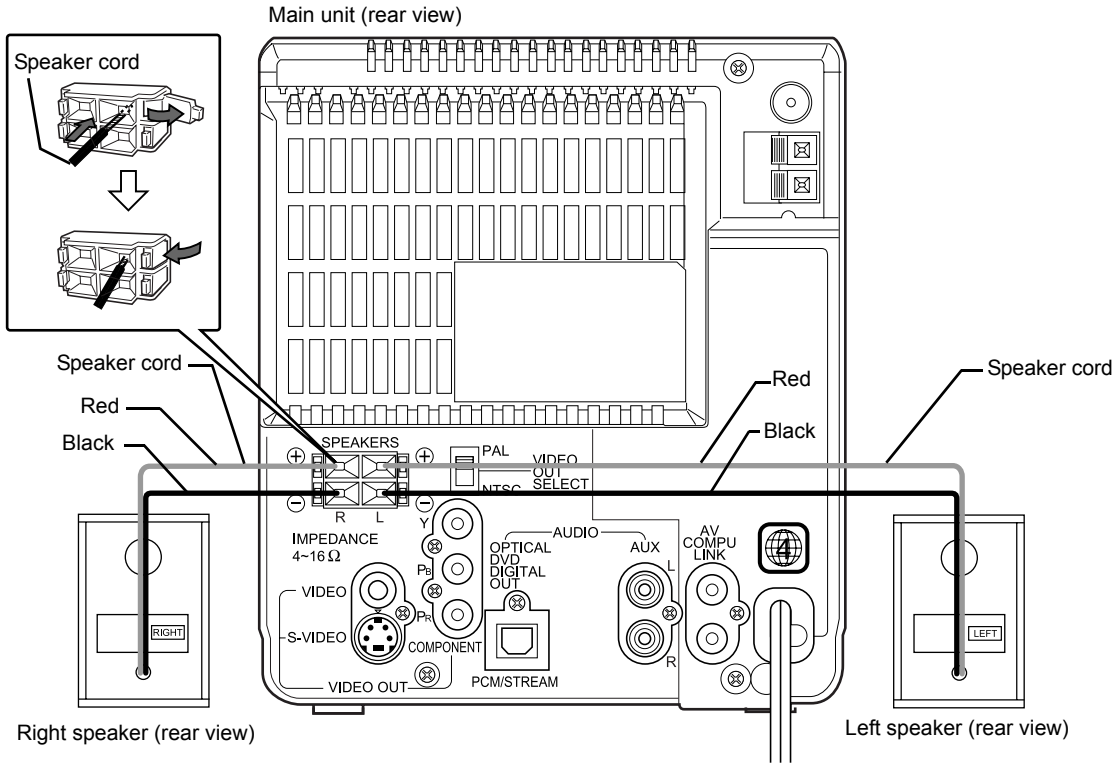


When using an antenna other than those supplied with this product, refer to the operation manuals for the antenna for details of connection.

When positioning the antennas, find the best position for reception while listening to an actual radio program (refer to "Listening to Radio Broadcasts" (☞ page 19)).

Connecting the Speakers

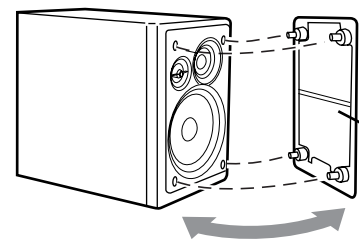
After connecting the speakers, gently pull on the speaker cords to make sure the cords are firmly connected and do not pull out.



CAUTION

- Do not short-circuit the ⊕ and ⊖ speaker terminals. Doing so may damage the speakers.
- 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 a distance of more than 10 cm between the TV and the speakers.

You can detach the speaker cover.

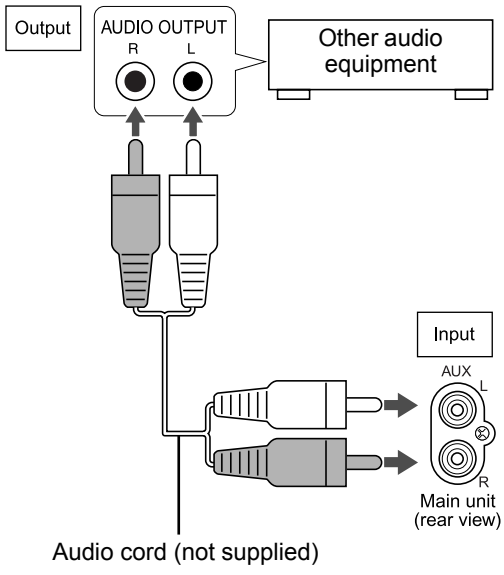


NOTE

- 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.
- 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. To ensure sufficient cooling, leave a space of more than 1 cm between the main unit and the speakers or other objects.

Connecting Other Equipment

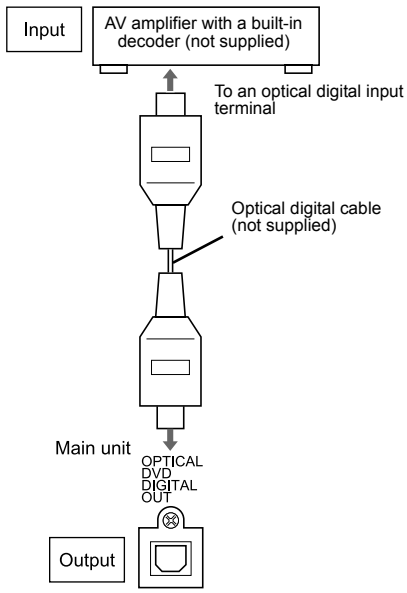
Read this section when connecting other audio equipment to this product.



CAUTION

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

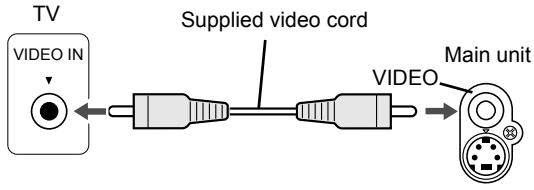
Connecting with digital equipment



CAUTION

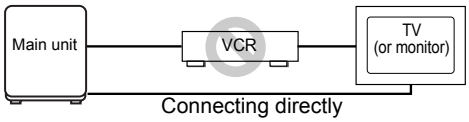
- For details of signals to be output, refer to page 39.
- If connecting the main unit to equipment that has the function of a Dolby Digital decoder, the setting in "D. RANGE COMPRESSION" of "AUDIO" (☞ page 39) will be invalid regarding sound from the digital audio output of the main unit.

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 thus it is not a malfunction.)



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

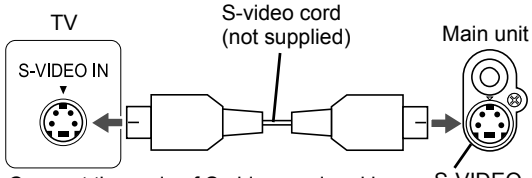
NOTE

- Please check that the setting for VIDEO OUT SELECT (PAL/NTSC) on the rear panel of the main unit and the color system on your TV set are the same. (☞ page 6)
  You need to set "MONITOR TYPE" in the "PICTURE" menu correctly according to the aspect ratio of your TV. (☞ page 38)

When a Clearer Picture Is Desired

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

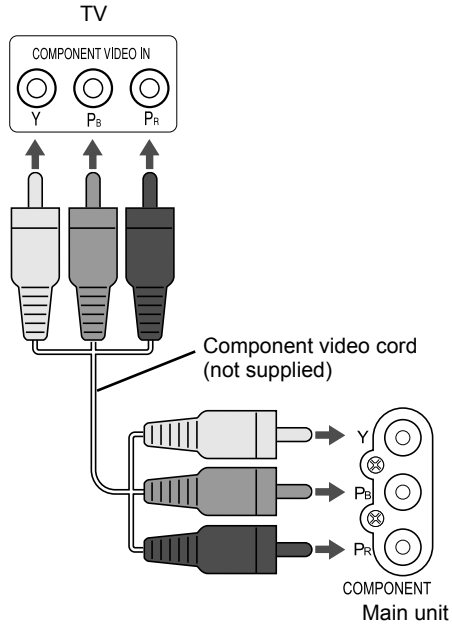
Connecting by using the S-video cord



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.



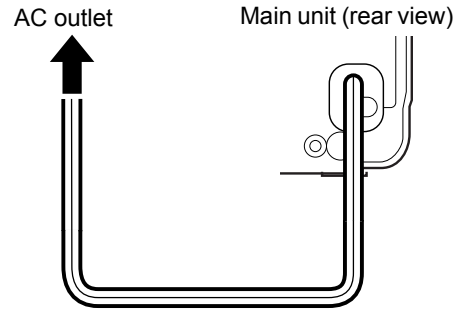
CAUTION

- 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 29), 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.

NOTE

- The preset setting such as preset channels and sound adjustment may be erased in a few days in the following cases:
  - When you disconnect the power plug.
  - When a power failure occurs.

Demonstration display function

When you connect the power plug into the AC outlet, "DEMO START!" appears in the display window and the demonstration display starts.

When you press COLOR /DEMO on the main unit, "DEMO OFF" appears in the display window and the demonstration display is canceled.
Turning on the main unit automatically cancels the demonstration display.

Resuming the demonstration display

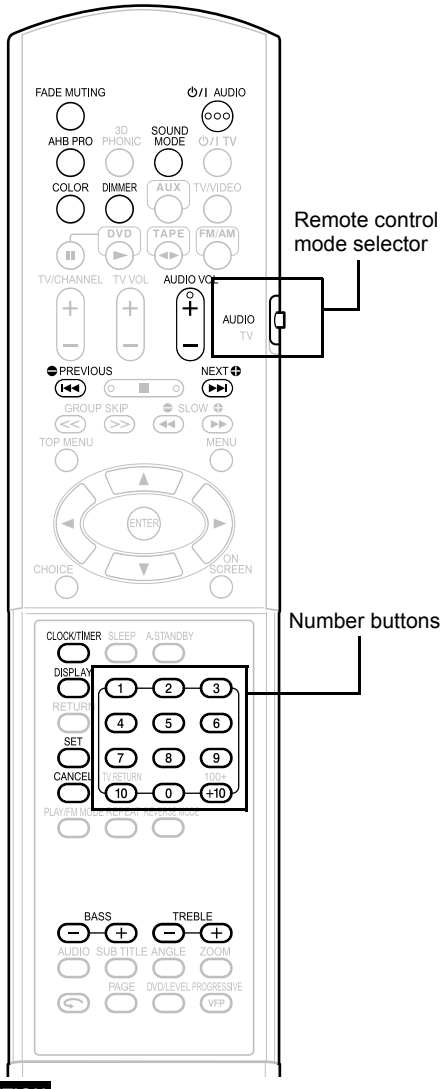
With the power turned off, press COLOR /DEMO on the main unit.

Hiding the demonstration display

With the power turned off, hold down COLOR /DEMO until "DEMO CLEAR" appears.
Disconnecting and then reconnecting the power plug does not start the demonstration display.
To activate the demonstration display again, hold down COLOR /DEMO until "DEMO START!" appears.

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. You can use either button in this case.



CAUTION

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

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.

1 Press CLOCK/TIMER.

0:00

2 Set the hour.

PREVIOUS / NEXT

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 below.

Using the number buttons

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

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

10:00

3 Press SET.

10:00

- To return to step 2, press CANCEL.

4 Set the minute in the same manner as steps 2 and 3.

10:10

Adjusting the clock

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

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 cut has occurred.

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. The function assigned to the button starts working at the same time.

Remote control: DVD TAPE FM/AM AUX

Main unit: DVD ⇄H TAPE ⇄D FM/AM AUX DVD ⏏

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 + − .

- You can also adjust the volume by turning the VOLUME control on the main unit.

NOTE

- You can adjust the volume within the range of 0 to 40.

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 toggles 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".

Adjusting the Sound Quality

Selecting the sound mode

Press SOUND MODE .

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

ROCK : For emphasizing treble and bass sounds.
↓
POP : 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 (initial 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.

Changing the Color Patterns for the Display Window and Disc Tray

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

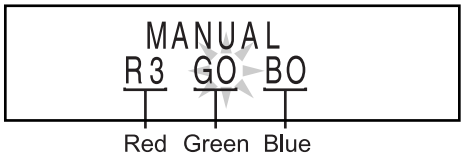
- Each time you press COLOR, the display toggles as follows.

RAINBOW : For a rainbow-like pattern.
↓
FLOWER : For a flower-image pattern.
↓
GRADATION : Gradually changes the color pattern in a cycle of approximately 20 seconds.
↓
OCEAN : For an ocean-image pattern.
↓
FANTASY : For a fantasy pattern.
↓
MANUAL (R3 GO BO) : For the color of your choice. (The setting shown on the left is initial setting.)

Setting your favorite color for the display window and disc tray

1 Press COLOR repeatedly to display "MANUAL".

2 Press PREVIOUS or NEXT to select a component color.



- Numerical value of the selected component color flashes.

3 Press AUDIO VOL + – to adjust the intensity of the component color.

- You can also adjust the color intensity by turning the VOLUME control on the main unit.
- You can adjust the color intensity within the range of "0" to "3".
  You cannot set all three component colors (red, green, and blue) to "0" at the same time.

NOTE

- After you have adjusted each component color, the display returns to the sound source display in approximately 8 seconds.
- You cannot set different colors for the display window and disc tray.
- When you operate a button on the main unit or remote control, the display window and disc tray light in pale blue for approximately 2 seconds.
- When recording finishes, the color of the display window and disc tray switches to the color set in "MANUAL" to inform you that recording has finished. (With an item other than "MANUAL" selected)
  When you operate the main unit after recording finishes, the color pattern for the display window and disc tray returns to the selected pattern.

Changing the brightness of the display window and disc tray (DIMMER)

Press DIMMER.

- Each time you press DIMMER, the display toggles 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 (initial setting).

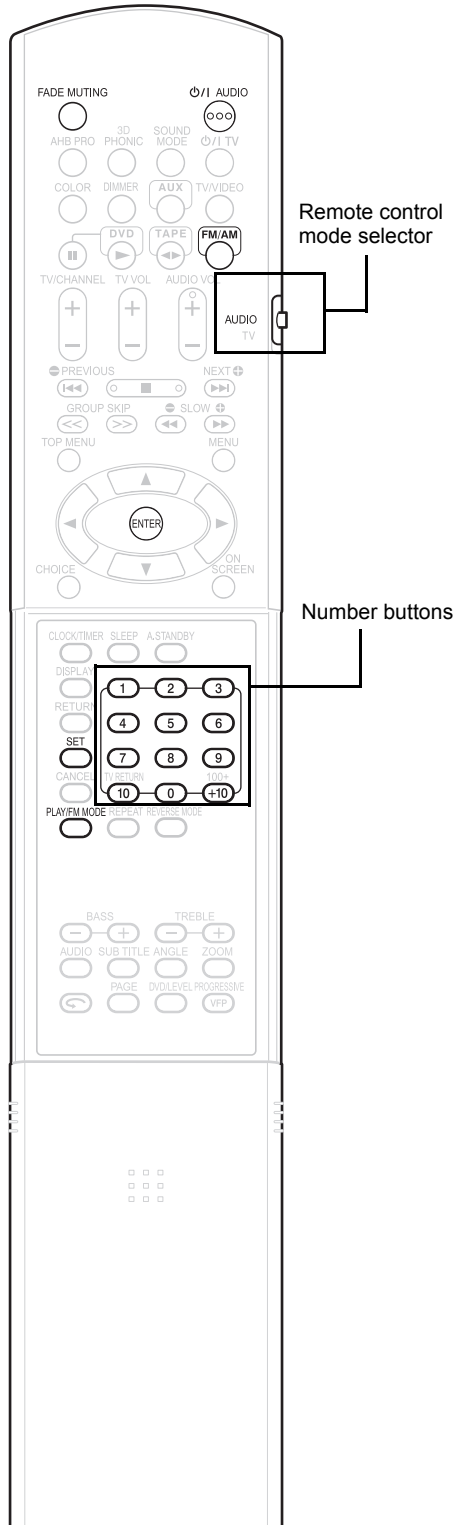
NOTE

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

Listening to Radio Broadcasts

Used frequently

This product can receive FM and AM radio broadcasts.



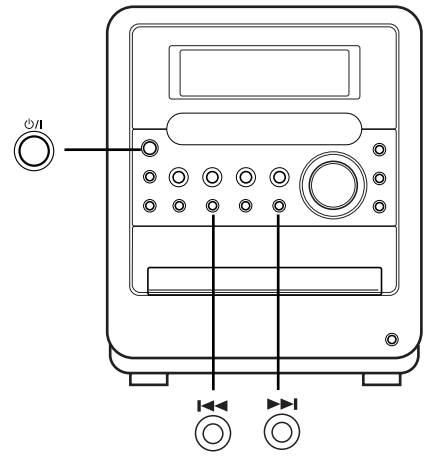
CAUTION

- 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" 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" appears in the display window.

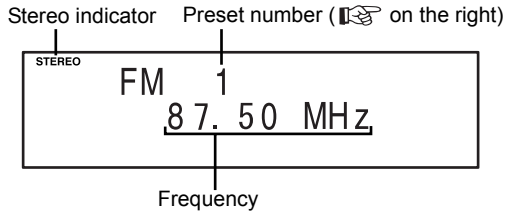
NOTE

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

Selecting a Radio Station

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

Example: Display 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.

NOTE

- 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 or select another FM radio station.
- This product is not compatible with AM stereo broadcasts.

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 - TV RETURN 10 or 100+ +10) to select the preset number you want to use.

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

4 While the selected number is flashing, press SET.

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

NOTE

- 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).

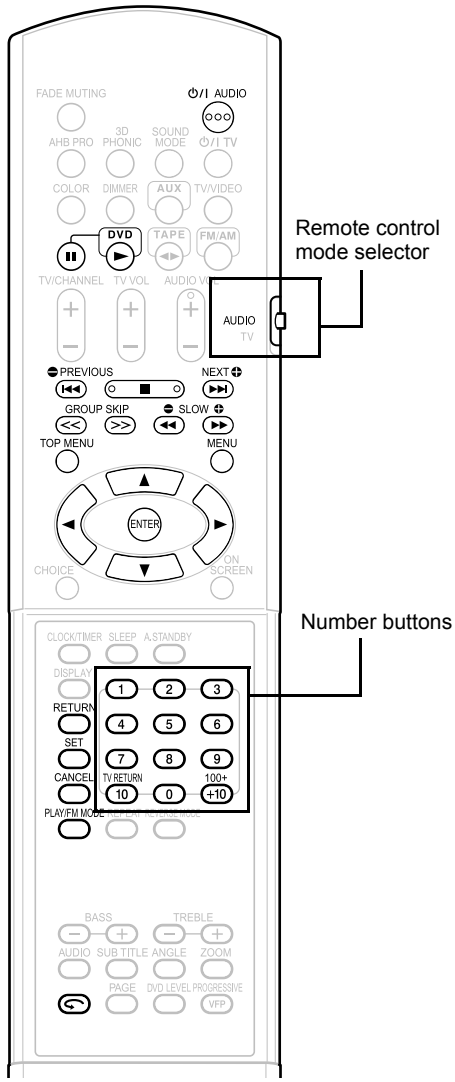
Basic Operations of the DVD Player

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 VCD SVCD C D MP3 WMA JPEG

- The illustrations and TV screens may be different between the actual case and the description.
- "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

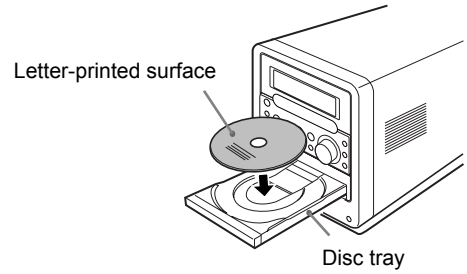
DVD VIDEO DVD AUDIO VCD SVCD C D

(Refer to page 36 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.



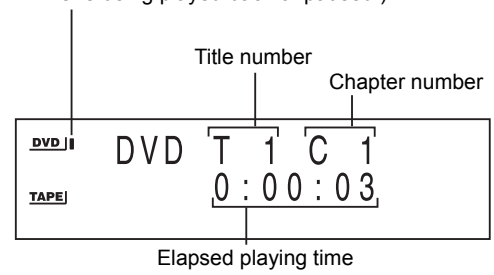
- When you want to listen to an 8 cm disc, place it on the inner hollow of the disc tray.

3 Press DVD.

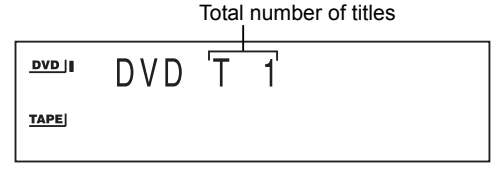
■Display for DVD VIDEO

Display while a DVD VIDEO is being played back:

DVD indicator
(The DVD indicator lights up while the DVD VIDEO is stopped. The DVD indicator flashes while the DVD VIDEO is being played back or paused.)



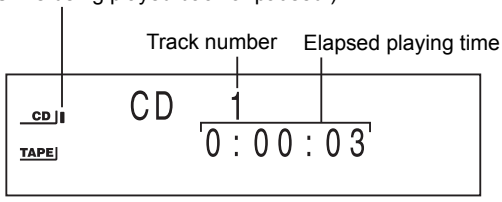
Display while the DVD VIDEO is stopped:



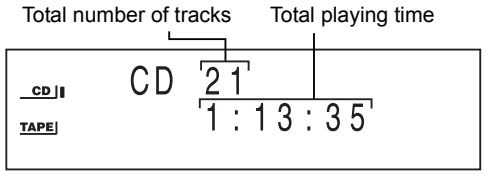
■Display for CD

Display while a CD is being played back:

CD indicator
(The CD indicator lights up while the CD is stopped. The CD indicator flashes while the CD is being played back or paused.)



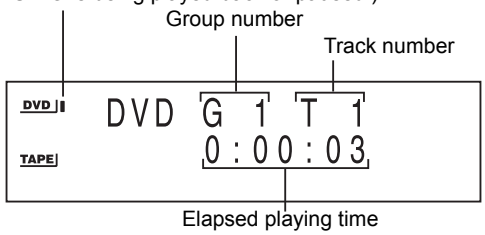
Display while the CD is stopped:



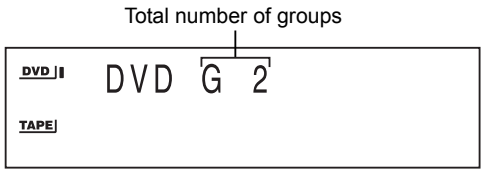
■Display for DVD AUDIO

Display while a DVD AUDIO is being played back:

DVD indicator
(The DVD indicator lights up while the DVD AUDIO is stopped. The DVD indicator flashes while the DVD AUDIO is being played back or paused.)



Display while the DVD AUDIO is stopped:

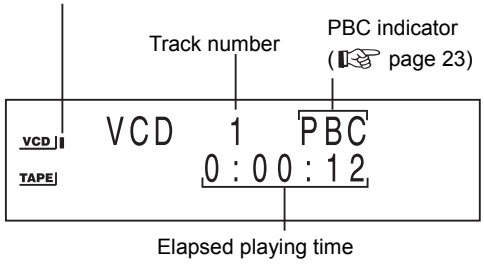


- "G1" and "T1" will appear after the total number of groups is displayed.

■Display for VCD/SVCD

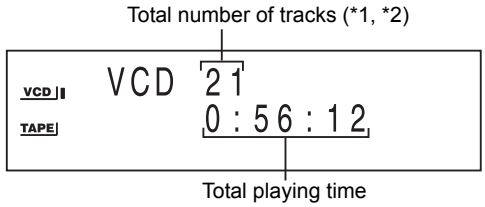
Display while a VCD/SVCD is being played back:

VCD indicator
(The VCD indicator lights up while the VCD/SVCD is stopped. The VCD indicator flashes while the VCD/SVCD is being played back or paused.)



- PBC indicator is displayed while PBC is activated.

Display while the VCD/SVCD is stopped:



*1 "1" will appear after the total number of tracks is displayed.
*2 "PBC" will appear when the disc is PBC-compatible.

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.

(Continued on next page)

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 21)

: Pause (☞ page 24)

: Fast reverse/Fast forward search (☞ page 24)

: Slow motion playback (reverse/forward directions)(☞ page 25)

: Containing multi-angle views (☞ page 27)

: Containing multi-audio (☞ page 26)

: Containing multi-subtitle (☞ page 27)

: 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, press RETURN to return to the higher menu group.

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

DVD VIDEO

■While a disc is being played back

Press ↩.

NOTE
- This operation may not be carried out for some discs.
- You cannot return to the previous title.

Stopping Playback

Used frequently

DVD VIDEO DVD AUDIO VCD SVCD CD MP3 WMA JPEG

■While a disc is being played back

Press ■.

Resuming Playback (RESUME)

DVD VIDEO DVD AUDIO VCD SVCD

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 39).**

Pausing Playback

DVD VIDEO DVD AUDIO 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 ◯ on the main unit during JPEG disc slide-show.

Advancing Picture Frame by Frame

DVD VIDEO SVCD VCD DVD AUDIO (only for moving image)

■While a disc is paused

Press ⏸.

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

Fast Reverse/Fast Forward Search

Used frequently

DVD VIDEO DVD AUDIO VCD SVCD CD

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

For the locations of remote control buttons, refer to page 21.

Slow Motion Playback

DVD VIDEO VCD SVCD DVD AUDIO (only for moving image)

■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 or SVCD, 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 VCD SVCD C D MP3 WMA JPEG

■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 ≪ or GROUP SKIP ≫ to select a title or group.

NOTE

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

Skipping to the Beginning of a Track with the Number Buttons

DVD VIDEO DVD AUDIO VCD SVCD C D MP3 WMA JPEG

■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 VCD or SVCD while the disc is stopped or played back with PBC off.
- You can operate a DVD AUDIO, CD, MP3, WMA, or JPEG while the disc is either played back or stopped.
- This operation may not be carried out for some discs.

Selecting a Track from the Menu Screen

DVD VIDEO DVD AUDIO VCD SVCD

■While a disc is stopped or being played back*

1 Set the remote control mode selector to AUDIO.

2 Press MENU ○ or TOP MENU ○.

- A menu screen of the disc appears.
- Only TOP MENU ○ can be used for DVD AUDIOs.

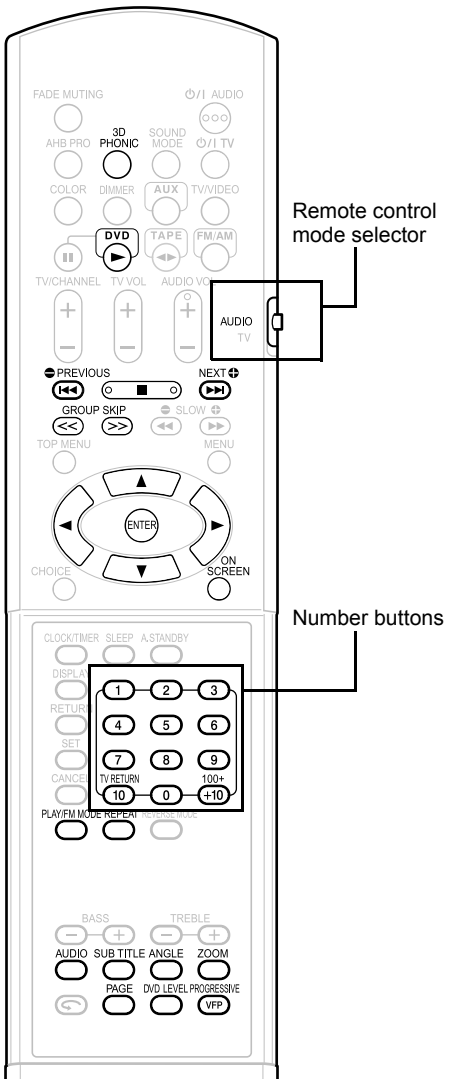
3 Press ▲ ▼ ◀ ▶ (only for a DVD VIDEO or a DVD AUDIO) or the number buttons to select a track you want to listen to.

- 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 (only for a VCD or SVCD).

4 Press ENTER.

NOTE

* You can operate a VCD or SVCD while PBC is set to off.
- 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.



NOTE

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

Selecting the Audio

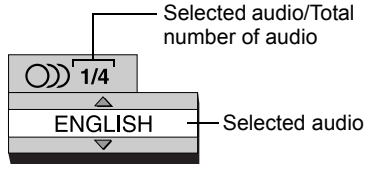
Used frequently

DVD VIDEO DVD AUDIO VCD SVCD

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

1 Press AUDIO.

Example: TV screen



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

2 Wait for a few seconds or press ENTER.

NOTE

- You can also operate this function by using the menu bar (☞ page 34).
- 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.

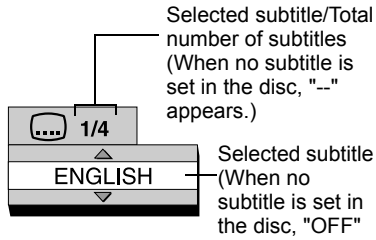
Selecting the Subtitle

DVD VIDEO SVCD DVD AUDIO
(only for moving image)

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

1 Press SUB TITLE.

Example: TV screen



2 Press ▲ ▼ to select a subtitle.

3 Wait for a few seconds or press ENTER.

NOTE

- You can also operate this function by using the menu bar (☞ page 34).
- 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".

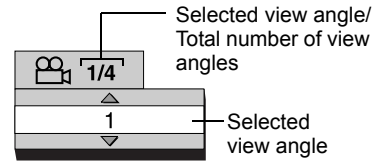
Selecting a View Angle

DVD VIDEO DVD AUDIO
(only for moving image)

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

1 Press ANGLE.

Example: TV screen



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

2 Wait for a few seconds or press ENTER.

NOTE

- You can also operate this function by using the menu bar (☞ page 34).

Magnifying the Picture (ZOOM)

DVD VIDEO VCD SVCD DVD AUDIO JPEG
(only for moving image)

■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.

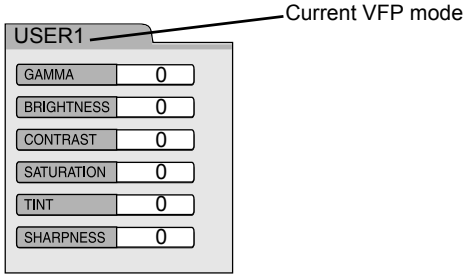
Adjusting the Picture Quality (VFP)

DVD VIDEO DVD AUDIO VCD SVCD JPEG

■While a disc is played back or paused

1 Press VFP.

Example: 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:

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 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: TV screen

• Each time you press 3D PHONIC, the display toggles 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 (initial 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".
- You cannot operate some types of DVD AUDIO 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 toggles as follows in the display window.

NORMAL : Sound level recorded in the DVD.
↓
MIDDLE : Enhances the sound level (initial 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 recording sound.

Enjoying Better Pictures (PROGRESSIVE)

In the progressive mode, you can enjoy better pictures.

CAUTION

- In order to enjoy pictures in the progressive mode, the following requirements should be met.
  - There must be component video input terminals on the TV set connected to the main unit.
  - The main unit and the TV set must be connected using a component video cord (☞ page 15).

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

■While the disc is played back or paused

Hold down PROGRESSIVE (VFP).

- Each time you press PROGRESSIVE (VFP), the display toggles as follows.

Interlace mode (initial setting)

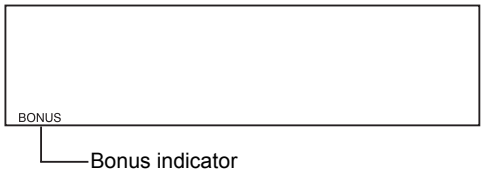
↕

Progressive mode

Playing Back the Bonus Group

DVD AUDIO

There are some DVD AUDIO discs with a special group, called "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 a pin code (4 digits).

- The method of getting a pin code is different depending on the disc.

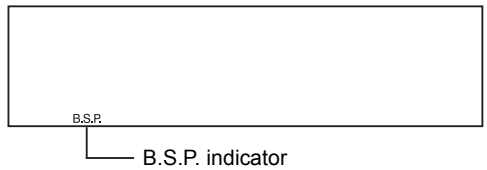
4 Press ENTER.

- 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.



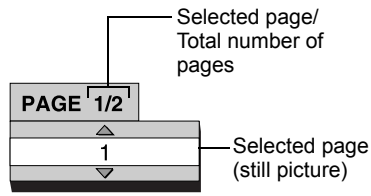
- This operation can be carried out when "B.S.P." is lit in the display window on the main unit.

■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 ▲ ▼.

Example: TV screen



2 Wait for a few seconds or press ENTER.

NOTE

- You can operate this function on the menu bar (☞ page 34).

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

DVD VIDEO DVD AUDIO VCD SVCD CD MP3 WMA

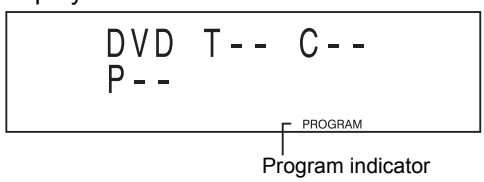
You can program a maximum of 99 chapters or tracks. You can program the same chapter or track more than once.

■While a disc is stopped

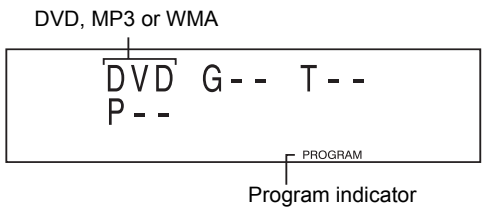
1 Set the remote control mode selector to AUDIO.

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

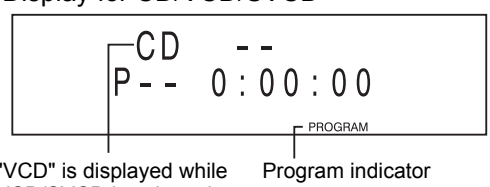
■Display for DVD VIDEO



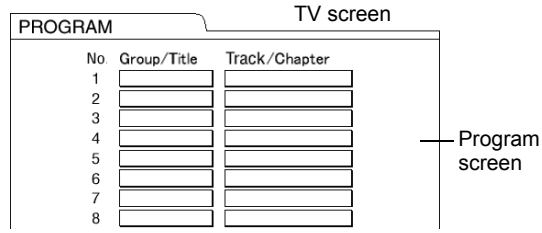
■Display for DVD AUDIO/MP3/WMA



■Display for CD/VCD/SVCD



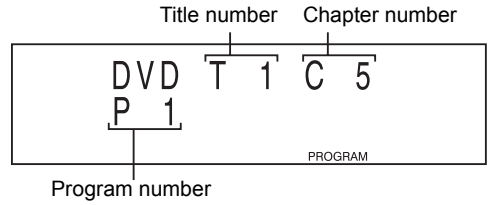
Example: For DVD VIDEO



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

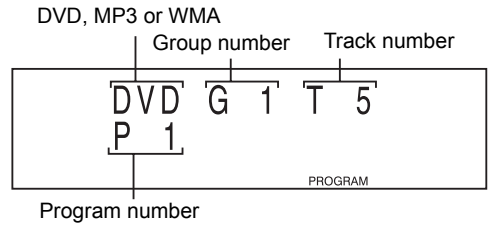
■Display for DVD VIDEO

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



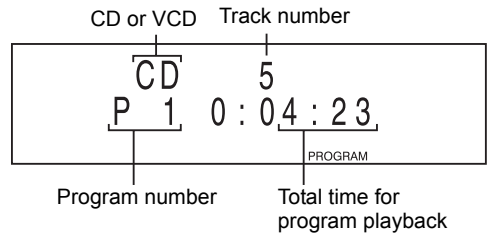
■Display for DVD AUDIO/MP3/WMA

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

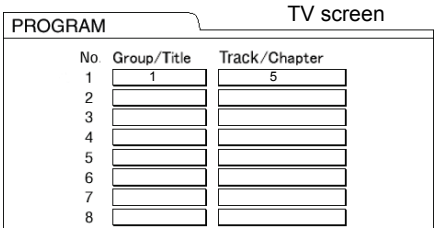


■Display for CD/VCD/SVCD

- Select a track number.



Example: For DVD VIDEO



- 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 30.
- When you try to enter more than 99 chapters or tracks, "MEMORY FULL" appears.

4 Press DVD.

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

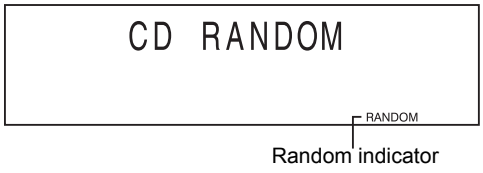
DVD VIDEO DVD AUDIO VCD SVCD CD MP3 WMA

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.

For the locations of remote control buttons, refer to page 26.

Repeat Playback

DVD VIDEO DVD AUDIO VCD SVCD CD

Refer to page 37 for repeat playback of MP3/WMA and JPEG files.

■While a disc is being played back

Press REPEAT.

- Each time you press REPEAT, the repeat type will be changed.

For DVD VIDEO

Repeat types	Display on the TV screen	Display in the display window on the main unit
Repeats the current chapter	CHAP*	REPEAT CHAPTER*
Repeats the current title	TITLE	REPEAT TITLE ALL
Cancels repeat	OFF	REPEAT OFF

For DVD AUDIO

Repeat types	Display on the TV screen	Display in the display window on the main unit
Repeats the current track	TRACK*	REPEAT TRACK*
Repeats the current group	GROUP	REPEAT GROUP GROUP
Cancels repeat	OFF	REPEAT OFF

For CD/VCD/SVCD

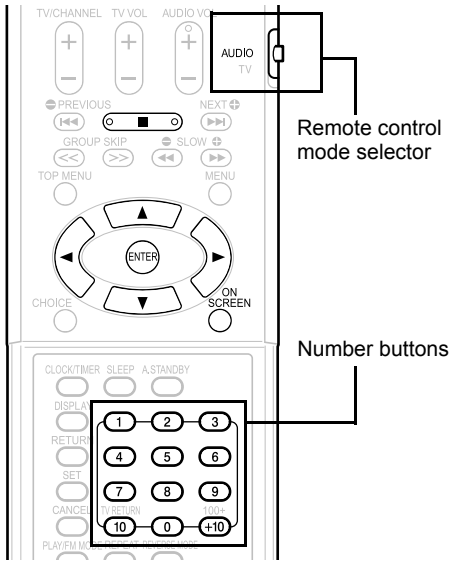
Repeat types	Display on the TV screen	Display in the display window on the main unit
Repeats the current track	TRACK*	REPEAT TRACK*
Repeats all tracks	ALL	REPEAT ALL ALL
Cancels repeat	OFF	REPEAT OFF

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

NOTE

- For a VCD and SVCD, the operation can be carried out during playback without the PBC function (☞ page 23).
- You can also operate this function on the menu bar (☞ page 34).
- For details on A-B repeat (repeat playback of a designated part), refer to page 35.

Status Bar and Menu Bar



DVD VIDEO DVD AUDIO VCD SVCD CD

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

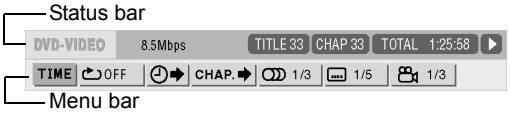
CAUTION

- 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.

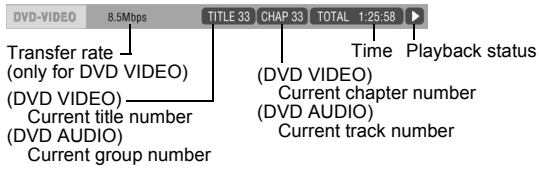
Function list

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

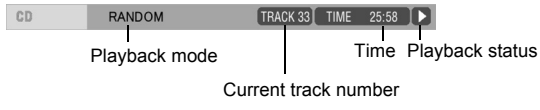
TIME Time display selection	Changes time information displayed in the display window on the main unit and the status bar. Each time ENTER is pressed, the display will be changed. **DVD VIDEO/DVD AUDIO** TOTAL : Elapsed playing time of current title/group T.REM : Remaining time of current title/group TIME : Elapsed playing time of current chapter/track REM : Remaining time of current chapter/track **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 33
Time search	page 35
CHAP. / TRACK Chapter search/ Track search	**DVD VIDEO/DVD AUDIO** 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/VCD/SVCD** page 26
Subtitle	**DVD VIDEO/DVD AUDIO/SVCD** page 27
1/3 View angle	**DVD VIDEO/DVD AUDIO** page 27
PAGE -/- Page switch	**DVD AUDIO** Switches the still pictures (B.S.P.) recorded on a DVD AUDIO disc. page 30

Information displayed on the status bar

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



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



NOTE

- The playback status mark has the same meaning of the mark on the on-screen guide (page 23).

For the locations of remote control buttons, refer to page 34.

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

DVD VIDEO DVD AUDIO VCD SVCD CD

■While a disc is being played back

1 Press ON SCREEN twice.

• The menu bar (☞ page 34) 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

- You can operate a VCD and SVCD while the disc is played back with PBC off.
- 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 VCD SVCD CD

■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 34).

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.

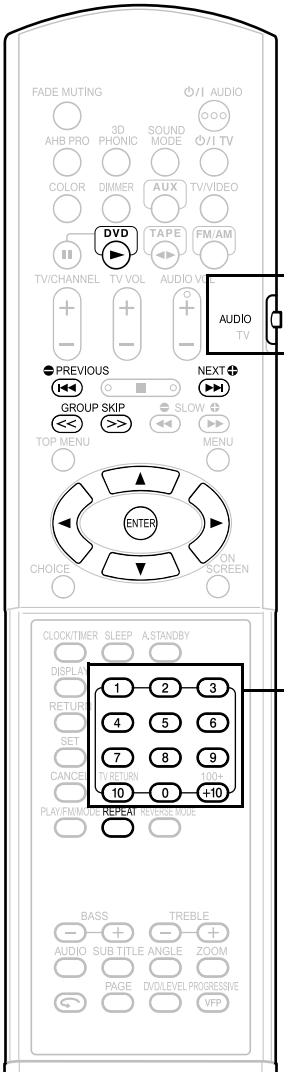
6 Press ENTER.

• To delete the menu bar, press ON SCREEN.

NOTE

- You may not be able to operate this function depending on the disc.
- This function does not work during program playback or random playback.
- For a CD, this operation can always be carried out. For a VCD or SVCD, the operation can be carried out when the disc is stopped or during playback without the PBC function.
- 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

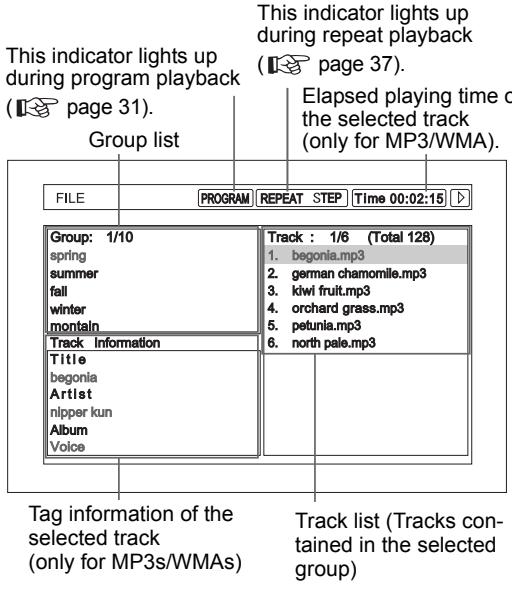
Display of an MP3/WMA disc is described here as an example.
For a JPEG disc, read "track" as "file".

NOTE

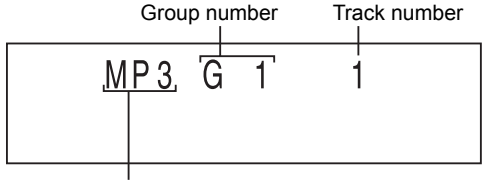
- When playing back a disc containing both MP3/WMA and JPEG files, set one of them to be played (☞ page 38).

1 Insert a disc.

Example: TV screen



Example: Display window



2 Press ▲ ▼ to select a group.

3 Press ► to move to the track list.

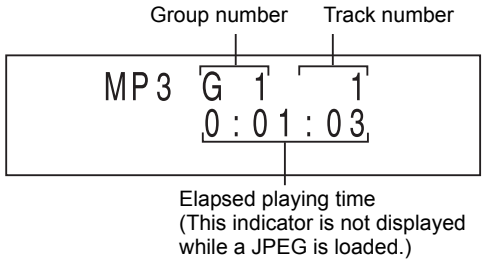
- Pressing ◄ returns to the group list.

(Continued on next page)

4 Press ▲ ▼ to select a track.

5 Press DVD ▶ or ENTER.

Example: Display 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 ◀◀ and 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.

Repeat Playback

MP3 WMA JPEG

■While a disc is being played back

Press REPEAT.

- Each time you press REPEAT, the repeat type is changed.

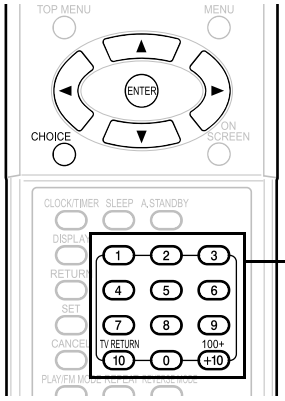
Repeat types	Display on the TV screen	Display in the display window on the main unit
Repeats the current track (only for MP3/WMA)	REPEAT TRACK*	REPEAT* TRACK ↻
Repeats the current group	REPEAT GROUP	REPEAT GROUP ↻GROUP
Repeats the entire disc	REPEAT ALL	REPEAT ALL ↻ALL
Cancels repeat playback	No display	REPEAT OFF

* "STEP" is displayed during program playback and random playback.

NOTE

- The repeat types can also be changed while the disc is stopped.
- The repeat playback is automatically canceled if there is a file that cannot be played back (☞ page 4).

DVD VIDEO DVD AUDIO VCD SVCD C D MP3 WMA JPEG



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

CAUTION

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

NOTE

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

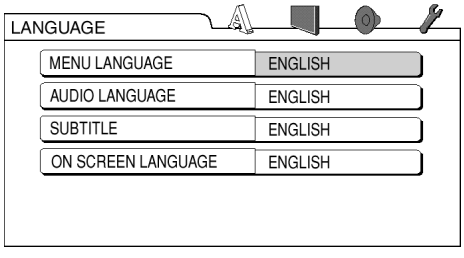
Basic Operations

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 CHOICE **.**

- "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.

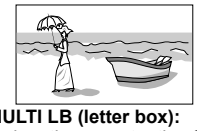
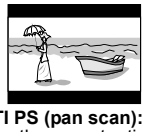
LANGUAGE

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. **VIDEO:** Select this item when you want to view a normal video. **FILM:** Select this item when you want to view a film or video recorded with the progressive scan method. **AUTO:** The video source type (a video or film) is automatically selected.
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. If you change this setting, open and close the disc tray, or momentarily turn off the main unit. (A disc either with audio files or still picture files can be played back regardless of this setting.)

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	**(page 24)**
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 23)**
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. **DVD2:** Connect to the video-1 input of the TV set. **DVD3:** Connect to the video-2 input of the TV set.
PARENTAL LOCK	**Set the parental lock function to cut off violent scenes or replace the scenes with others. (This is effective only for discs equipped with the parental lock function.)** **COUNTRY CODE (page 40)** Select your country or area. **SET LEVEL:** The restriction is stricter as the number becomes smaller. "NONE" is no restriction. **PASSWORD (essential):** Enter four-digit number as your password using the number buttons (1-9, 0) every time. (Enter "8888" if you forget your password.) The password is required at the time of playback. • If you enter a wrong password three times, "EXIT" will be automatically selected.

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

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

NOTE

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

Country/Area Codes

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

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

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

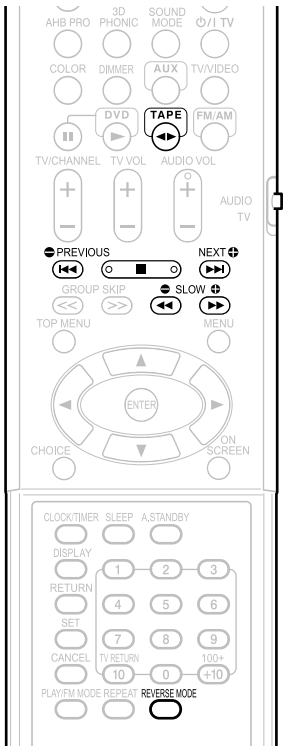
SD	Sudan
SE	Sweden
SG	Singapore
SH	Saint Helena
SI	Slovenia
SJ	Svalbard and Jan Mayen
SK	Slovakia
SL	Sierra Leone
SM	San Marino
SN	Senegal
SO	Somalia
SR	Suriname
ST	Sao Tome and Principe
SV	El Salvador
SY	Syrian Arab Republic
SZ	Swaziland
TC	Turks and Caicos Islands
TD	Chad
TF	French Southern Territories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

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		

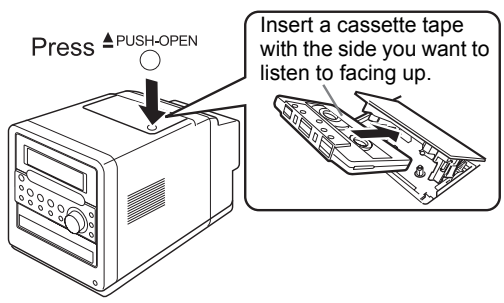
Listening to Cassette Tapes

Used frequently

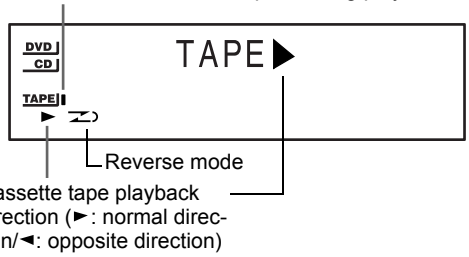


	Operation
Stop	Press ■.
Fast forward/ Rewind	Press ⏭ or ⏮. • When a cassette tape is played back in the normal direction (►), ⏭ is fast forward and ⏮ is rewind. • When the cassette tape is played back in the opposite direction (◄), ⏮ is fast forward and ⏭ is rewind. • You can perform the same operation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

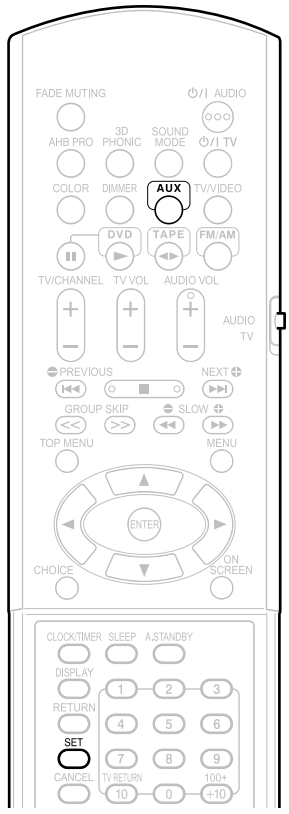
: For repeated playback of both sides (Playback continues until playback is stopped.)

: 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

Adjusting the sound input level of the AUX

1 Press AUX.

2 Hold down SET until the input level appears.

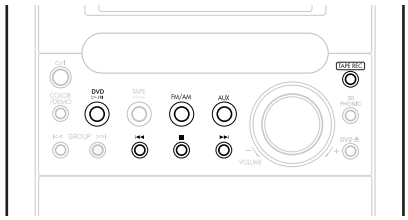
- Each time you hold down SET, the display toggles as follows.

LEVEL 1 For ordinary use. (initial setting)

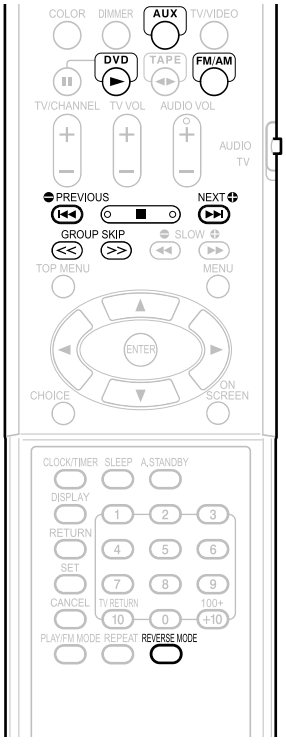
LEVEL 2 For increasing the level.

Recording Sound to Cassette Tapes Used frequently

Main unit



Remote control



NOTE

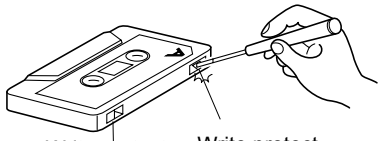
- The sound input level during recording is automatically adjusted.
- When you record tracks from a disc, a 4-second blank is inserted between tracks in the recording. You can record tracks with no blank time.
(☞ page 45)

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.

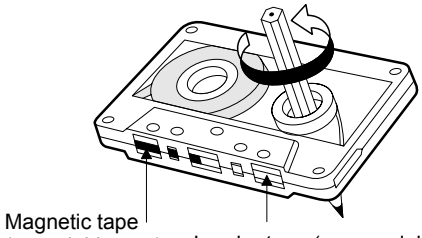
Preventing recorded sound from being erased

- 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 toggles as follows.

: For one-way recording on either side.

: For one return recording on both sides.

: Pressing TAPE REC automatically starts one return recording on both sides.

- 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.

Sound source	Operation
Disc	Press DVD, and then press ■. (The disc is stopped.)
Radio broadcast	Select the radio station whose broadcast you want to record (☞ page 19).
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 pattern of the display window and disc tray switches to the color pattern set in "MANUAL" to inform you that recording has finished (☞ page 18).

Quitting Recording

Press ■.

Recording Only One Track from a Disc

(Excluding DVD VIDEOs)

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.

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

(For a DVD VIDEO: while the disc is paused)

■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 31).

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.

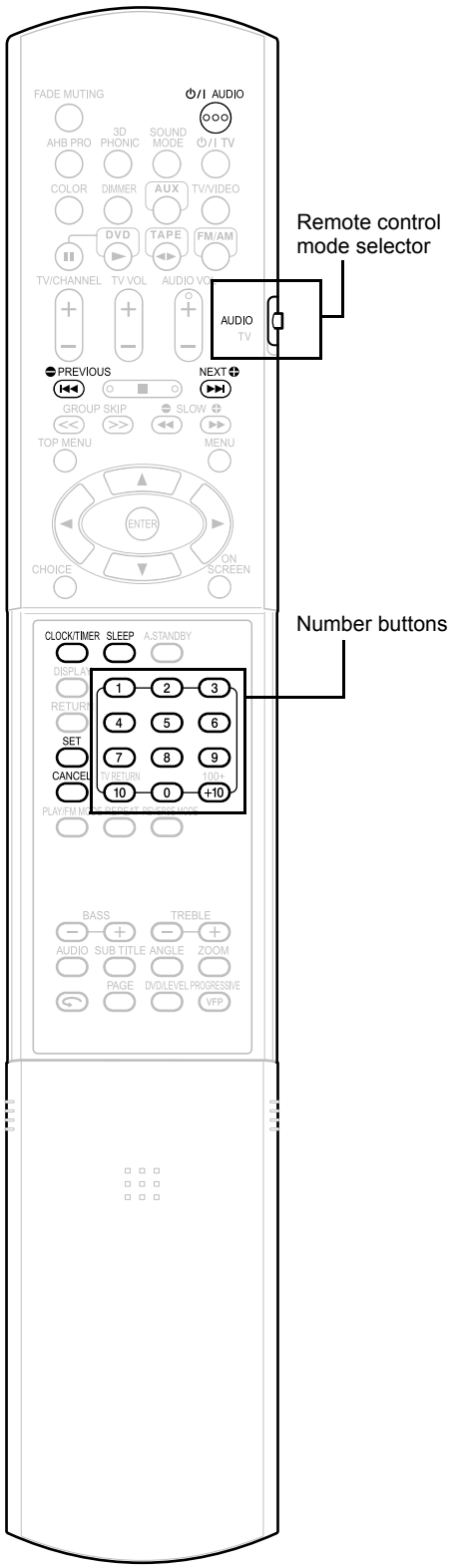
- Do not play back any tracks on the connected equipment.

NOTE

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

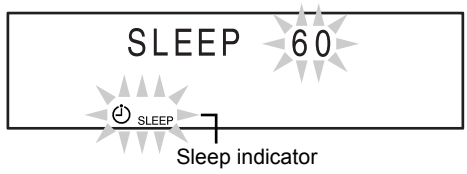
When the specified time passes, the main unit automatically turns off.

Press SLEEP.

- Each time you press SLEEP, the time display (in minutes) toggles 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.

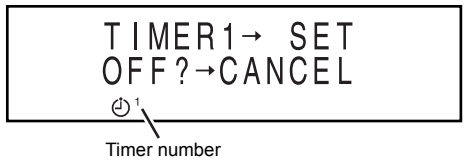
1 Prepare the sound source.

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".

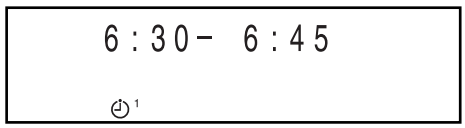
Example: When "TIMER1" is selected



4 Press SET.

5 Press PREVIOUS, NEXT or 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 clock, refer to "Setting the Clock" (☞ page 16).

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

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

ONCE : The recording timer works once.
EVERYDAY : The recording timer works every day.

7 Press SET.

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

- "REC" stands for "Recording".

9 Press SET.

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

11 Press SET.

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

12 When the main unit is on, 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 then press SET repeatedly until all of the setting procedure finishes. Then turn off the main unit.

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 cut, the recording timer settings may be lost. If the settings are lost, set the clock and recording timer again.

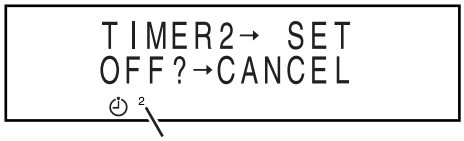
Playback Timer

1 Prepare the sound source you want to play back.

Disc	Make sure that a disc is loaded. (☞ page 21)
Cassette tape	Insert a cassette tape. (☞ page 42)
Radio	Preset the radio station whose broadcast you want to listen to. (☞ page 20)
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

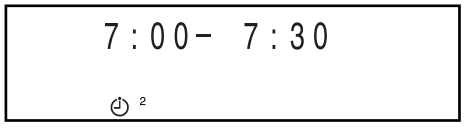


Timer number

3 Press SET.

4 Press PREVIOUS, NEXT or 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 "Setting the Clock" (☞ page 16).

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

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

ONCE : The playback timer works once.
EVERYDAY : The playback timer works every day.

6 Press SET.

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

(Continued on next page)

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

8 Press SET.

9 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 or random playback of a disc.

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

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

- (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 or DVD AUDIO 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).

10 Press SET.

11 Press PREVIOUS or NEXT to adjust the playback volume.

12 Press SET.

- The settings appear in the display window.

13 When the main unit is turned on, press ⏻/I AUDIO to turn off the main unit.

- The playback 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 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.

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.

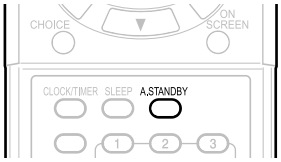
Activating the playback timer again

In step 2 on page 48, select the timer number you want to activate, and then press SET repeatedly until all of the setting procedure finishes. Then turn off the main unit.

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 cut, 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

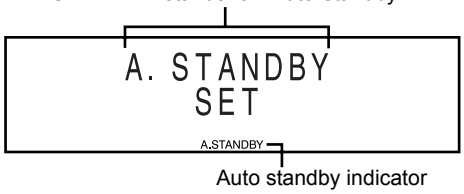


If no sound is produced for 3 minutes when the disc or cassette tape is selected as a sound source, the main unit automatically turns off.

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

Press A.STANDBY.

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



Auto standby 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.

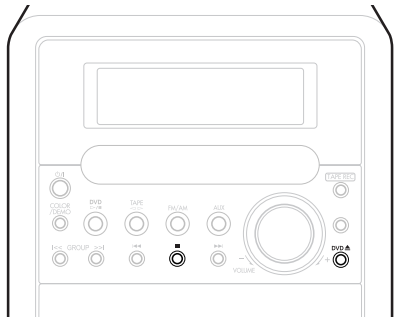
Canceling auto standby

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.

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

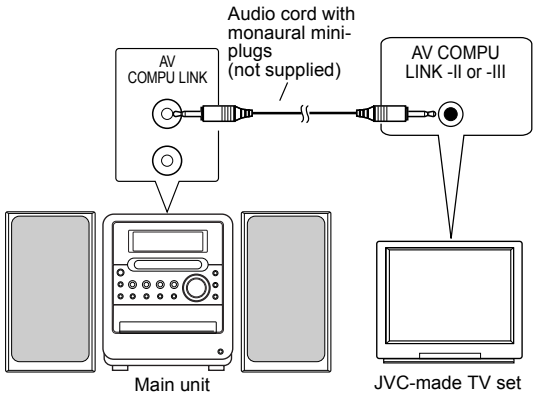
Carry out the operation explained above once again.

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 39) 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

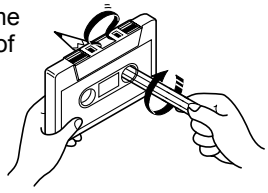
Wipe a disc from the center outward with a soft cloth.

Scratches concentrated on a certain part cause sound dropout.

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

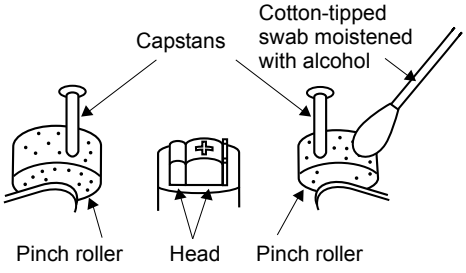
Handling cassette tapes

- 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.	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.	21
	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, 12
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
You cannot set the timer.	You did not set the clock.	Set the clock.	16
The timer does not work.	The main unit is turned on.	After setting the timer, turn off the main unit.	47, 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
When you turn on the main unit, a noise comes out from the rear of the main unit.	The internal cooling fan produces the 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-UXQD9S)

Amplifier

Output power	20 W + 20 W at 4 Ω (10% THD)
Input terminals	
<Analog>	AUX×1, 500 mV/47 kΩ:LEVEL1 250 mV/47 kΩ:LEVEL2
Output terminals	
<Analog>	Speaker×1, 20 W/4 Ω Impedance 4 Ω - 16 Ω Headphone (×1), 25 mW/32 Ω Impedance 16 Ω - 1 kΩ
<Digital>	DVD/CD optical input × 1 -23 dBm to -15 dBm (Optical square terminal)
<Other>	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)

DVD player

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

Cassette deck

Frequency response	
Normal (type I)	60 Hz - 14 000 Hz
Wow and flutter	0.15% (WRMS)

General

Power requirement	AC 240 V~, 50 Hz
Power consumption	70 W (at operation) 1.3 W (on standby)
Dimensions	165 mm (W) × 200 mm (H) × 355 mm (D)
Mass (approx.)	4.6 kg

■Speaker (SP-UXQD9S)

System	3-way bass reflex type, Magnetically shielded type
Speakers	Woofer: 10 cm × 1 Midrange: 4 cm × 1 Tweeter: 1.5 cm × 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) × 204.5 mm (D)
Mass (approx.)	2.2 kg (1 unit)

■Micro component system (UX-QD9S)

General

Dimensions	445 mm (W) × 231 mm (H) × 355 mm (D)
Mass (approx.)	9.0 kg

- U.S. and foreign patents licensed from Dolby Laboratories.

UX-QD9S MICRO COMPONENT SYSTEM

JVC

EN

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0904SKMMODJEM

English

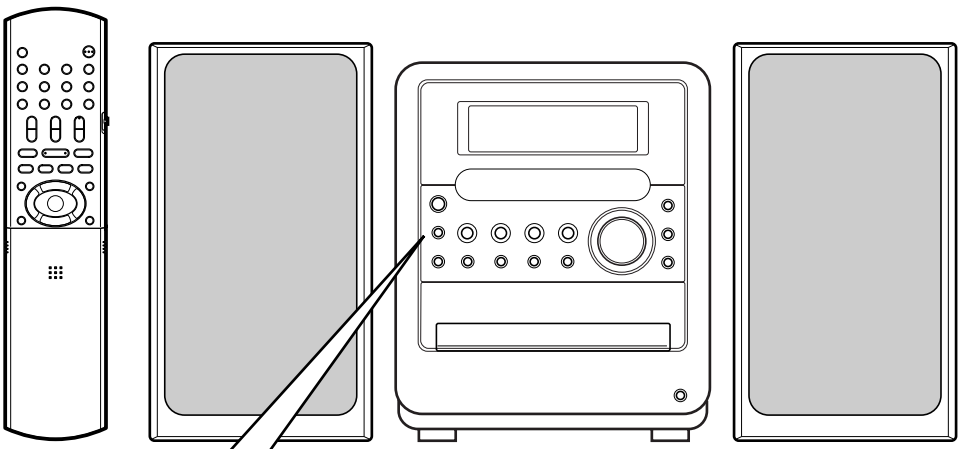
中文

JVC

MICRO COMPONENT SYSTEM
微型组合音响

UX-QD9S

Consists of CA-UXQD9S and SP-UXQD9S
由 CA-UXQD9S 和 SP-UXQD9S 组成



For hiding the demonstration display, refer to page 15.
有关隐藏演示显示的详情，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

LVT1220-006A
[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 ⏻/I button in any position does not disconnect the mains line.
The power can be remote controlled.

注意－ ⏻/I 开关！

想要完全关闭电源，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。
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相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

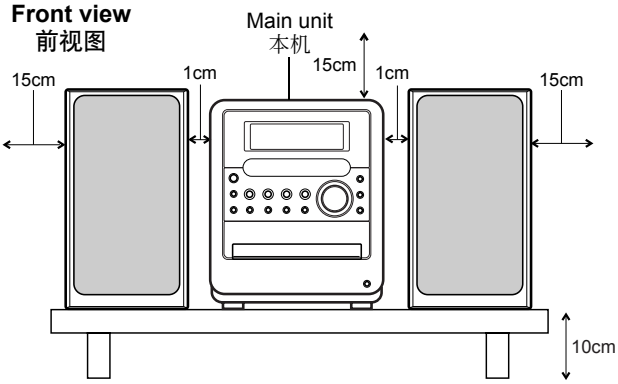
为了防止触电，火灾及避免损坏，

按如下要求放置机器：

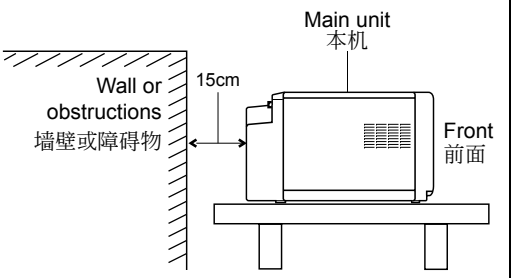
上面 / 前面 / 后面 / 侧面：	在图中所示范围中，不应放置任何障碍物。
底部：	放置在水平面上。放置在一个高 10 cm 或更高的台上以保留足够的通风道。

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



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

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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.

Playable Disc Types

This product has been designed to play back the following discs:
DVD VIDEO, DVD AUDIO, VCD, SVCD, CD
This product can also play back the following discs:

- Finalized DVD-R/RW discs recorded in the DVD VIDEO format.
- CD-R/RW discs recorded in the following formats

- Music CDs (finalized discs)
- VCDs
- SVCDs
- MP3/WMA/JPEG discs recorded in ISO 9660 (for details, refer to "About MP3/WMA/JPEG discs")

However, some discs may not be played back because of their disc characteristics, recording conditions, or damage or stain on them.
Only sounds can be played back from the following discs:

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

Discs you can play:

Disc Type	Mark (Logo)	Video Format	Region Code Number*
DVD VIDEO		PAL/ NTSC	3/ALL
DVD AUDIO		—	—
VCD		PAL/ NTSC	—
SVCD		PAL/ NTSC	—
CD		—	—
CD-R		—	—
CD-RW		—	—

DVD Logo is a trademark of DVD Format/Logo Licensing Corporation.

* **Note on Region Code**
DVD players and DVD VIDEOs have their own region code numbers. This product can only play back a DVD VIDEO recorded with the region code number and video format mentioned above.

Examples:

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

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

About CD-Rs/CD-RWs

You can play back a CD-R/CD-RW only when the disc is finalized.

- You can play back a CD-R/CD-RW which has been recorded in the audio CD format and a CD-R/CD-RW to which audio data (MP3/WMA) or a still picture data (JPEG) file is recorded.
  However, 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 CD-R/CD-RW, 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 on this product, erase all tracks if the CD-RW was recorded in a format other than the audio CD format. Using the CD-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, DVD-RAM, DVD-RW (recorded in VR format), CD-ROM, CD-I (CD-I Ready), Photo CD, SACD, etc.
  Playing back these discs will generate noise and damage the speakers.
- Damaged discs and discs in an extraordinary shape (other than a disc of 12 cm or 8 cm in diameter) cannot be played back.
- 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

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

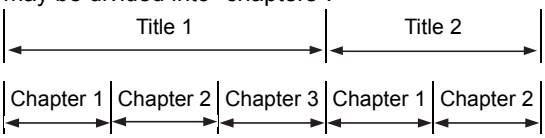
Notes on MP3/WMA/JPEG discs and files

- 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 PC's monitor screen.
- In the case of MP3/WMA discs, since groups/tracks are played back in alphabetical order, an off-the-shelf 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/WMA 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/WMA 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 is applied such as the automatic rotation function of a digital camera, data goes beyond the DCF standard, so the image may not be displayed).
- If data has been processed, edited and restored with PC image editing software, the data may not be displayed.
- This product cannot play back animations such as MOTION JPEG, or still pictures (TIFF etc.) other than JPEG, and 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.
- Files recorded on DVD-R/RW discs cannot be played back.

Disc Structure

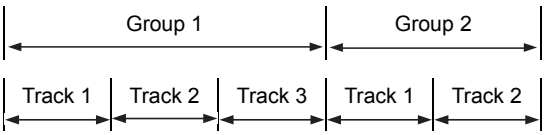
DVD VIDEO

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



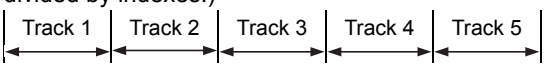
DVD AUDIO

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 30).



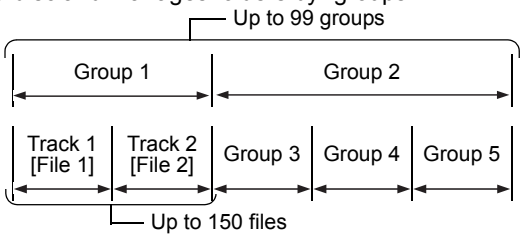
VCD/SVCD/CD

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



MP3/WMA [JPEG] discs

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

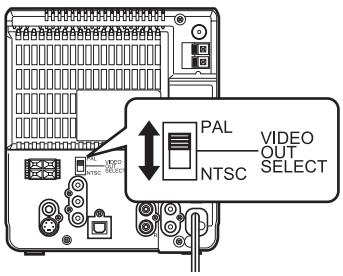


This product can recognize up to 1 000 tracks [files] in a disc. Also, the product can recognize up to 150 tracks [files] per group and up to 99 groups in a disc. Since the unit ignores the tracks [files] whose numbers are exceeding 150 and the groups whose numbers are exceeding 99, they cannot be played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

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

Selecting the Color System

This product is compatible with PAL and NTSC color systems.
In standby mode, select PAL or NTSC to match your TV.
If the VIDEO OUT SELECT switch is switched over when the power is on, turn off the power, and then turn it on again.



Color system of TV	VIDEO OUT SELECT
Multi-color system	PAL or NTSC*
PAL	PAL
NTSC	NTSC

* Set the color system of the unit and TV to match the playback disc.

- 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 38).

NOTE

- If you play back an NTSC disc with this setting set to "PAL", 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.

NOTE

- If you play back a PAL disc with this setting set to "NTSC", 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.

Special Cautions

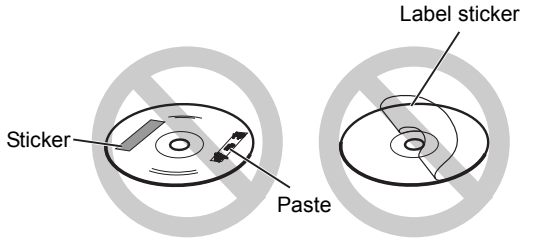
Notes on Handling

■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

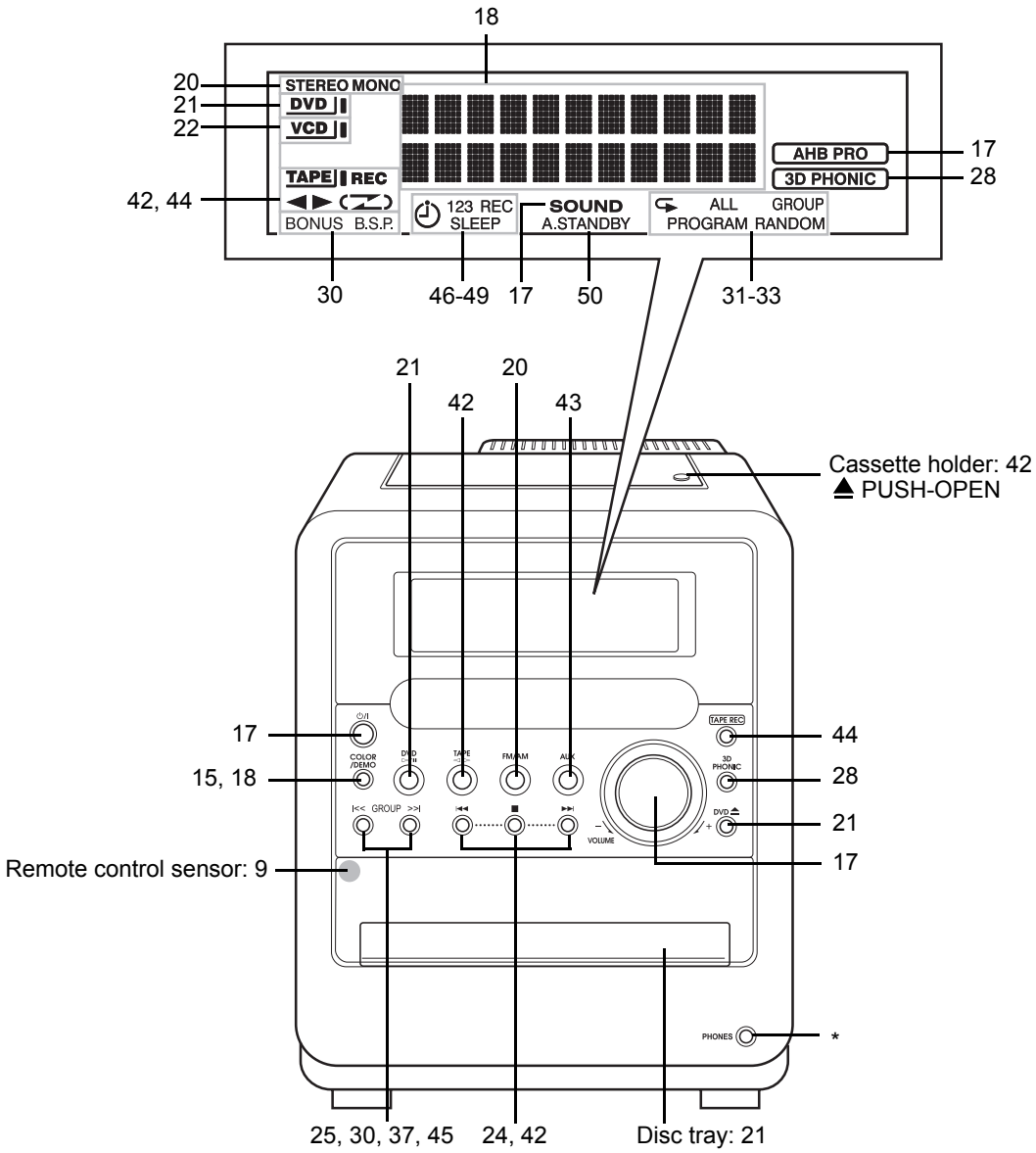
Check to be sure you have all of the supplied accessories.
The number in parentheses is the quantity of the pieces supplied. If anything is missing, contact your dealer immediately.

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.

Part Description

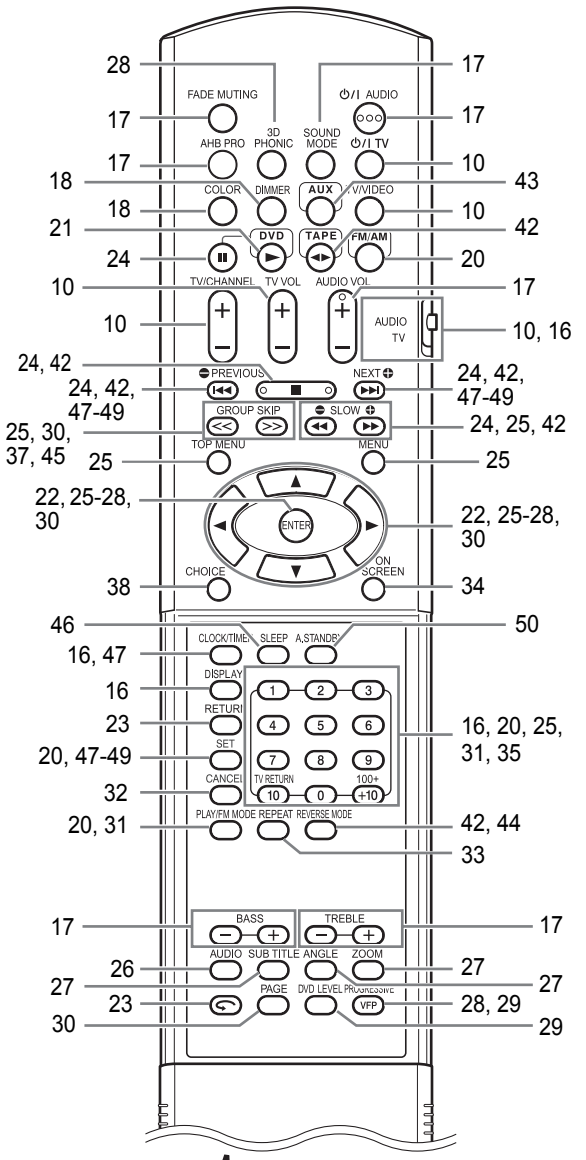
The numbers refer to the pages in which the parts are explained.



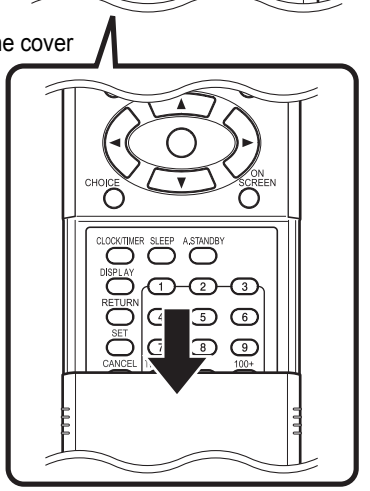
* This terminal is for connecting a pair of headphones equipped with a stereo mini plug (not supplied). While the headphones are connected, the speakers do not produce any sound.

Remote Control

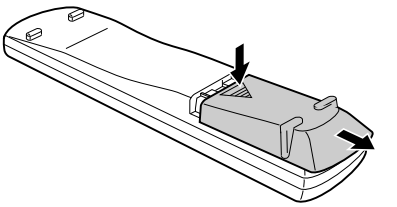
The numbers refer to the pages in which the parts are explained.

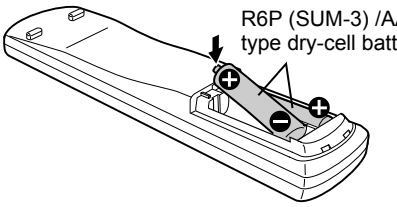


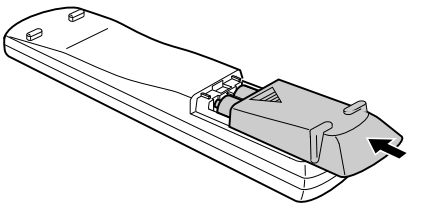
Opening the cover



Inserting Batteries into the Remote Control







CAUTION

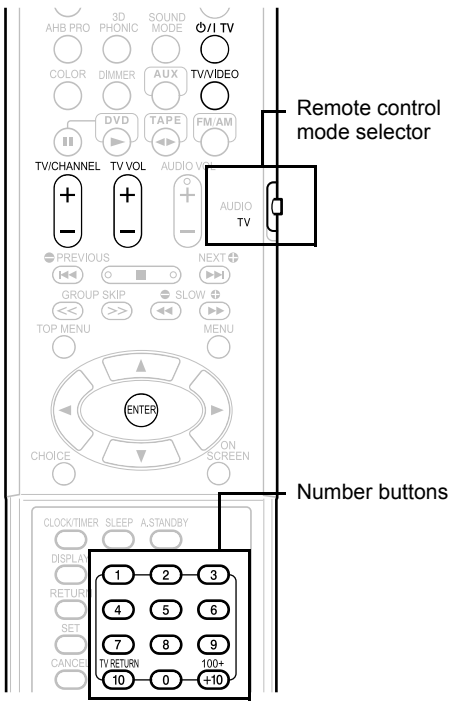
- Do not use a used battery and a new battery together.
- Do not use different types of batteries at the same time.
- Take out the batteries if the remote control is not to be used for a long time. Otherwise it may cause a leakage.

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.

NOTE

- 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 causes the product to work properly.

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

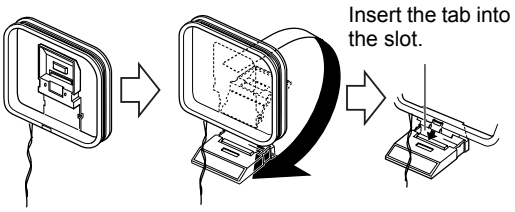
NOTE

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

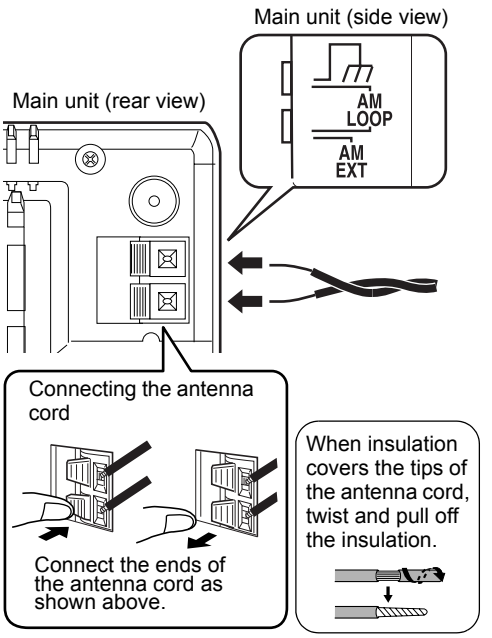
Connecting the Antennas

Connecting the AM antenna

1 Set up the AM antenna (supplied).



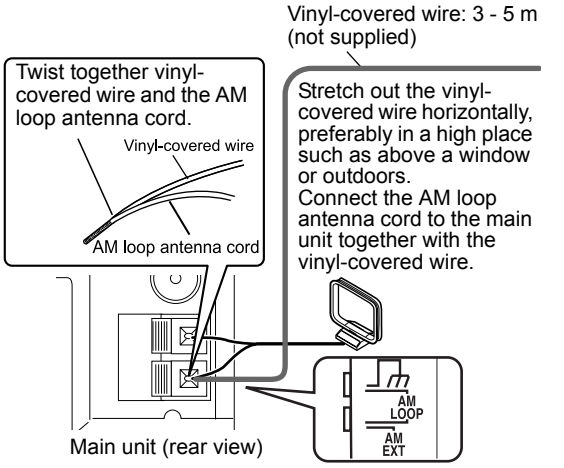
2 Connect the antenna cord.



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.

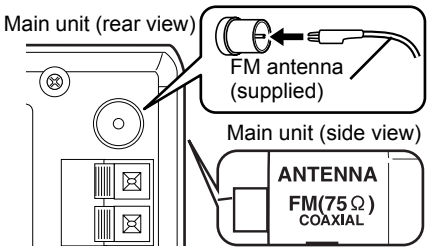
- Do not place the AM loop antenna on a metallic table or close to a TV, computer, or other electric appliances. Doing so may affect radio reception.

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

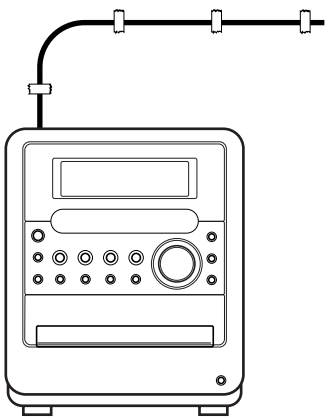


When positioning the antennas, find the best position for reception while listening to an actual radio program (refer to "Listening to Radio Broadcasts" (☞ page 19)).

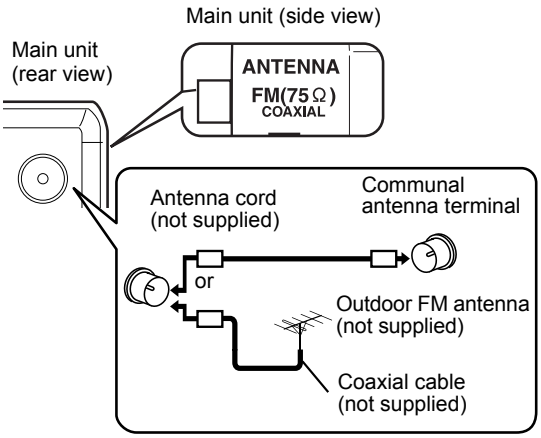
Connecting the FM antenna



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

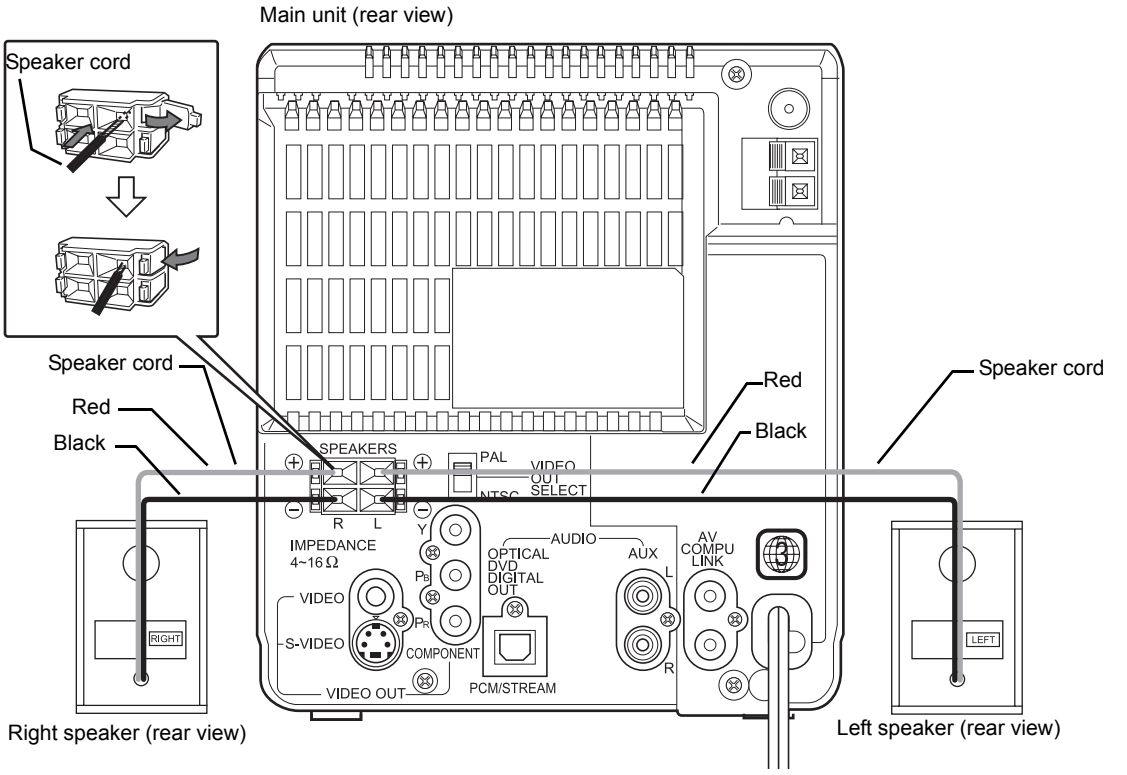


When using an antenna other than those supplied with this product, refer to the operation manuals for the antenna for details of connection.

When positioning the antennas, find the best position for reception while listening to an actual radio program (refer to "Listening to Radio Broadcasts" (☞ page 19)).

Connecting the Speakers

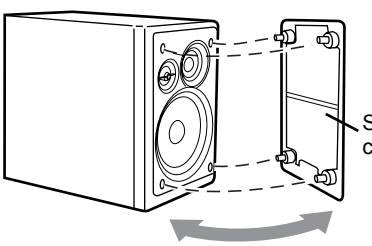
After connecting the speakers, gently pull on the speaker cords to make sure the cords are firmly connected and do not pull out.



CAUTION

- Do not short-circuit the ⊕ and ⊖ speaker terminals. Doing so may damage the speakers.
- 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 a distance of more than 10 cm between the TV and the speakers.

You can detach the speaker cover.

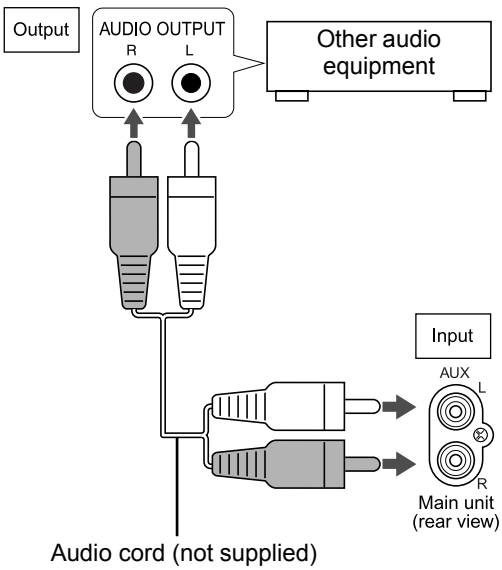


NOTE

- 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.
- 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. To ensure sufficient cooling, leave a space of more than 1 cm between the main unit and the speakers or other objects.

Connecting Other Equipment

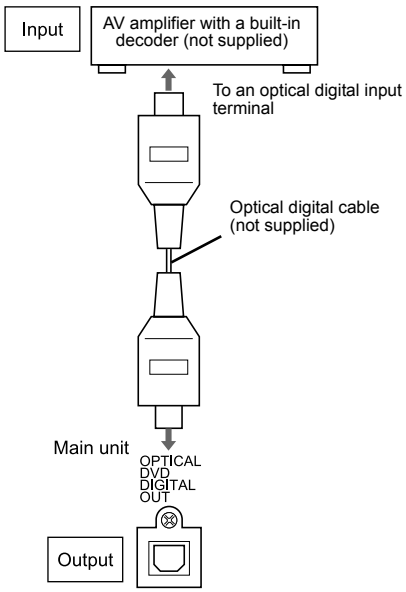
Read this section when connecting other audio equipment to this product.



CAUTION

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

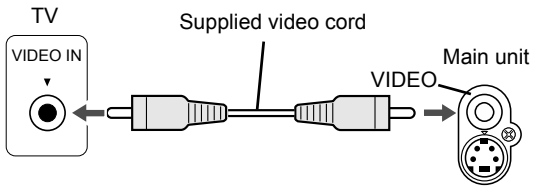
Connecting with digital equipment



CAUTION

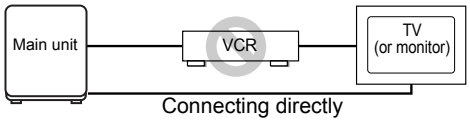
- For details of signals to be output, refer to page 39.
- If connecting the main unit to equipment that has the function of a Dolby Digital decoder, the setting in "D. RANGE COMPRESSION" of "AUDIO" (☞ page 39) will be invalid regarding sound from the digital audio output of the main unit.

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 thus it 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.

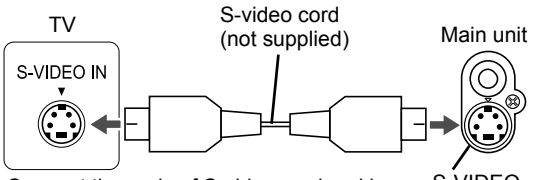
NOTE

- Please check that the setting for VIDEO OUT SELECT (PAL/NTSC) on the rear panel of the main unit and the color system on your TV set are the same. (☞ page 6)
  You need to set "MONITOR TYPE" in the "PICTURE" menu correctly according to the aspect ratio of your TV. (☞ page 38)

When a Clearer Picture Is Desired

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

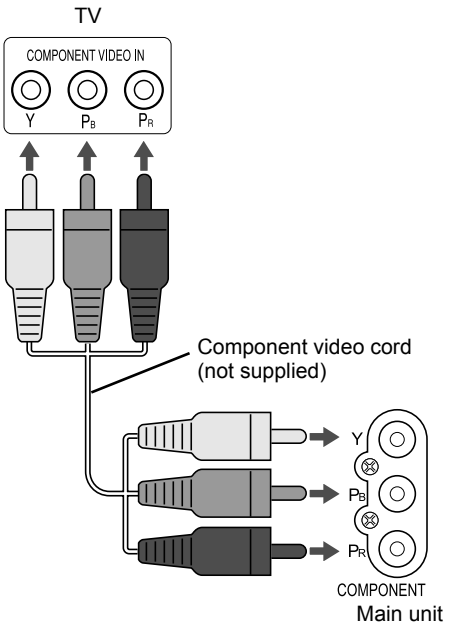
Connecting by using the S-video cord



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.



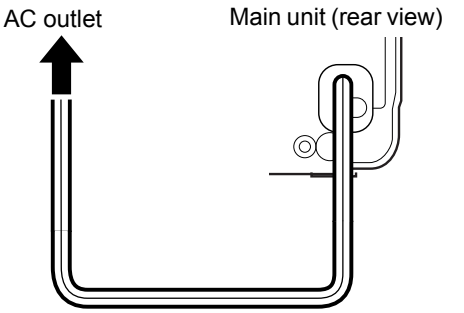
CAUTION

- 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 29), 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.

NOTE

- The preset setting such as preset channels and sound adjustment may be erased in a few days in the following cases:
  - When you disconnect the power plug.
  - When a power failure occurs.

Demonstration display function

When you connect the power plug into the AC outlet, "DEMO START!" appears in the display window and the demonstration display starts.

When you press COLOR /DEMO on the main unit, "DEMO OFF" appears in the display window and the demonstration display is canceled.
Turning on the main unit automatically cancels the demonstration display.

Resuming the demonstration display

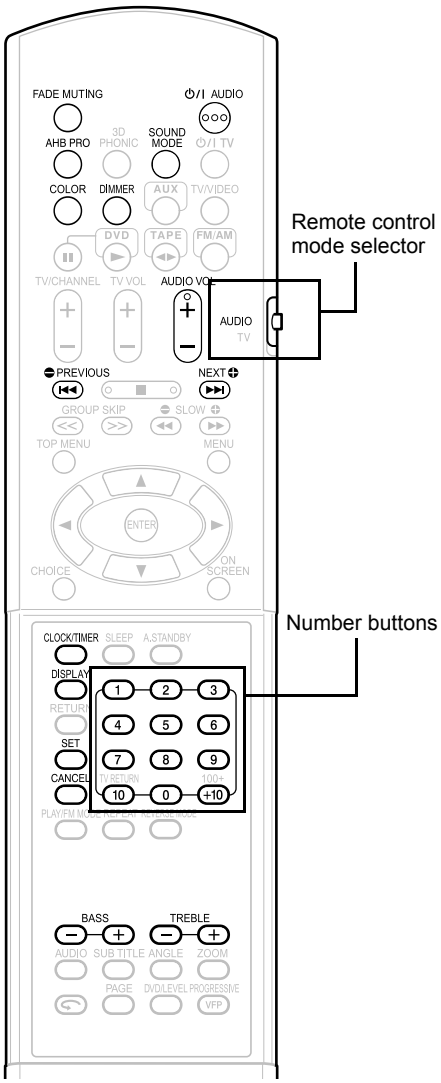
With the power turned off, press COLOR /DEMO on the main unit.

Hiding the demonstration display

With the power turned off, hold down COLOR /DEMO until "DEMO CLEAR" appears.
Disconnecting and then reconnecting the power plug does not start the demonstration display.
To activate the demonstration display again, hold down COLOR /DEMO until "DEMO START!" appears.

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. You can use either button in this case.



CAUTION

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

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.

1 Press CLOCK/TIMER.

0:00

2 Set the hour.

PREVIOUS (Back) NEXT (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 below.

Using the number buttons

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

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

10:00

3 Press SET.

10:00

- To return to step 2, press CANCEL.

4 Set the minute in the same manner as steps 2 and 3.

10:10

Adjusting the clock

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

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 cut has occurred.

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. The function assigned to the button starts working at the same time.

Remote control: DVD TAPE FM/AM AUX

Main unit: DVD TAPE FM/AM AUX DVD ⏏

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 + – **.**

- You can also adjust the volume by turning the VOLUME control on the main unit.

NOTE

- You can adjust the volume within the range of 0 to 40.

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 toggles 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".

Adjusting the Sound Quality

Selecting the sound mode

Press SOUND MODE **.**

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

ROCK : For emphasizing treble and bass sounds.
↓
POP : 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 (initial 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.

Changing the Color Patterns for the Display Window and Disc Tray

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

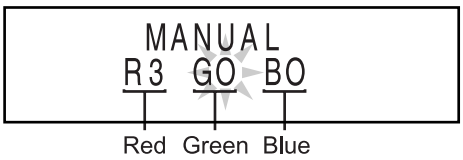
- Each time you press COLOR, the display toggles as follows.

RAINBOW : For a rainbow-like pattern.
↓
FLOWER : For a flower-image pattern.
↓
GRADATION : Gradually changes the color pattern in a cycle of approximately 20 seconds.
↓
OCEAN : For an ocean-image pattern.
↓
FANTASY : For a fantasy pattern.
↓
MANUAL (R3 GO BO) : For the color of your choice. (The setting shown on the left is initial setting.)

Setting your favorite color for the display window and disc tray

1 **Press COLOR repeatedly to display "MANUAL".**

2 **Press PREVIOUS or NEXT to select a component color.**



- Numerical value of the selected component color flashes.

3 **Press AUDIO VOL to adjust the intensity of the component color.**

- You can also adjust the color intensity by turning the VOLUME control on the main unit.
- You can adjust the color intensity within the range of "0" to "3".
  You cannot set all three component colors (red, green, and blue) to "0" at the same time.

NOTE

- After you have adjusted each component color, the display returns to the sound source display in approximately 8 seconds.
- You cannot set different colors for the display window and disc tray.
- When you operate a button on the main unit or remote control, the display window and disc tray light in pale blue for approximately 2 seconds.
- When recording finishes, the color of the display window and disc tray switches to the color set in "MANUAL" to inform you that recording has finished. (With an item other than "MANUAL" selected)
  When you operate the main unit after recording finishes, the color pattern for the display window and disc tray returns to the selected pattern.

Changing the brightness of the display window and disc tray (DIMMER)

Press DIMMER.

- Each time you press DIMMER, the display toggles 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 (initial setting).

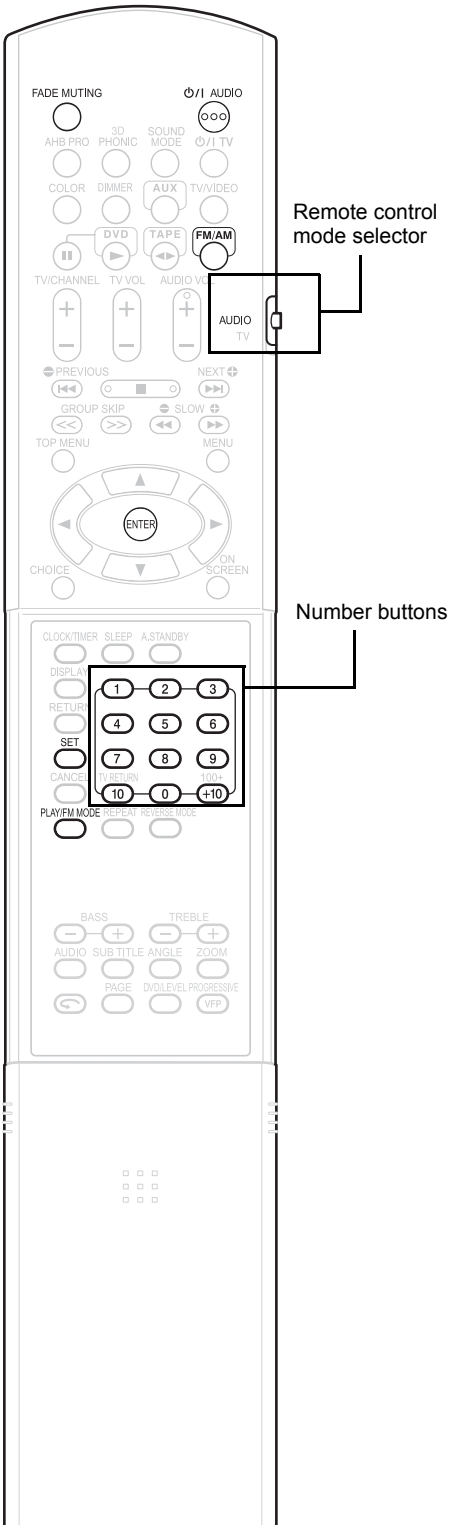
NOTE

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

Listening to Radio Broadcasts

Used frequently

This product can receive FM and AM radio broadcasts.



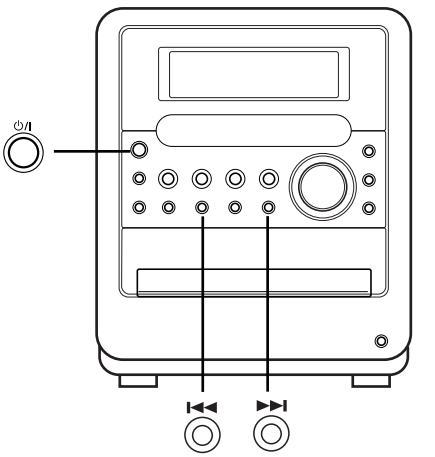
CAUTION

- 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" 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" appears in the display window.

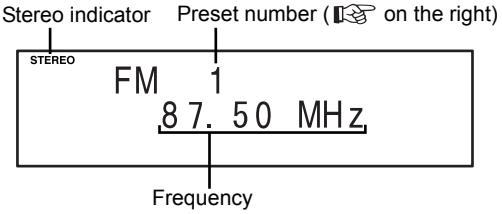
NOTE

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

Selecting a Radio Station

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

Example: Display 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.

NOTE

- 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 or select another FM radio station.
- This product is not compatible with AM stereo broadcasts.

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 - TV RETURN 10 or 100+ +10) to select the preset number you want to use.

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

4 While the selected number is flashing, press SET.

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

NOTE

- 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).

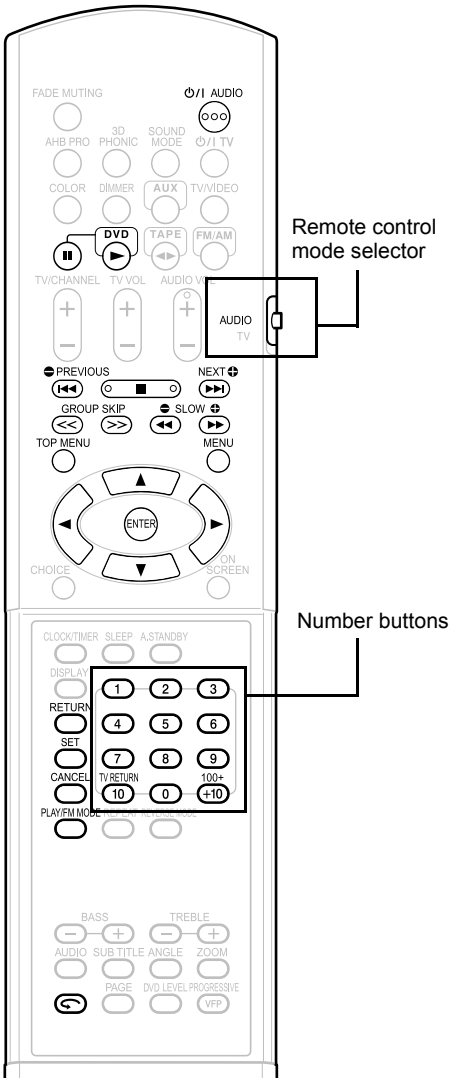
Basic Operations of the DVD Player

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 VCD SVCD CD MP3 WMA JPEG

- The illustrations and TV screens may be different between the actual case and the description.
- "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

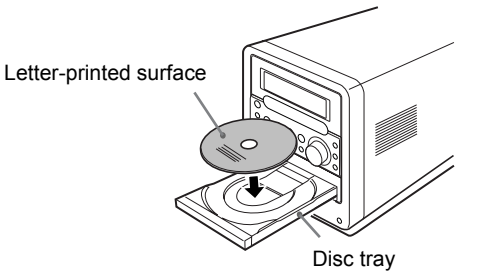
DVD VIDEO DVD AUDIO VCD SVCD CD

(Refer to page 36 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.



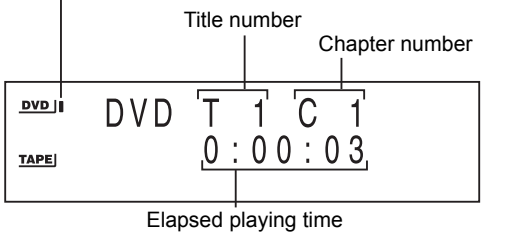
- When you want to listen to an 8 cm disc, place it on the inner hollow of the disc tray.

3 Press DVD ▶.

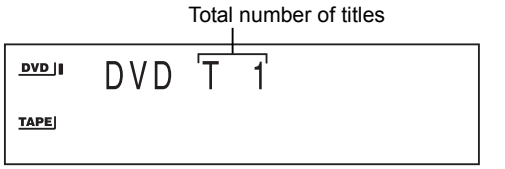
■Display for DVD VIDEO

Display while a DVD VIDEO is being played back:

DVD indicator
(The DVD indicator lights up while the DVD VIDEO is stopped. The DVD indicator flashes while the DVD VIDEO is being played back or paused.)



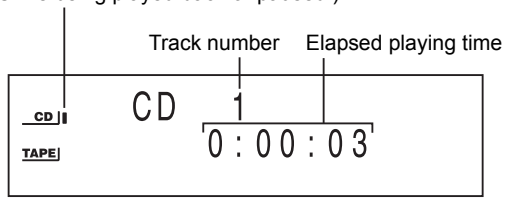
Display while the DVD VIDEO is stopped:



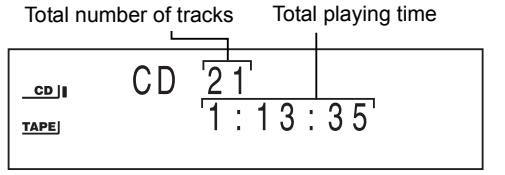
■Display for CD

Display while a CD is being played back:

CD indicator
(The CD indicator lights up while the CD is stopped. The CD indicator flashes while the CD is being played back or paused.)



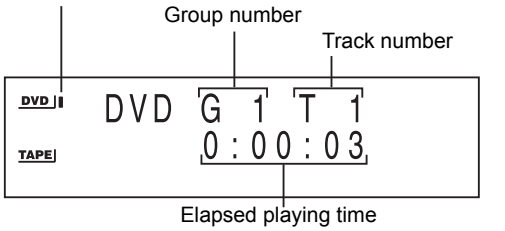
Display while the CD is stopped:



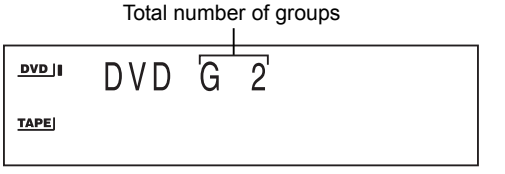
■Display for DVD AUDIO

Display while a DVD AUDIO is being played back:

DVD indicator
(The DVD indicator lights up while the DVD AUDIO is stopped. The DVD indicator flashes while the DVD AUDIO is being played back or paused.)



Display while the DVD AUDIO is stopped:

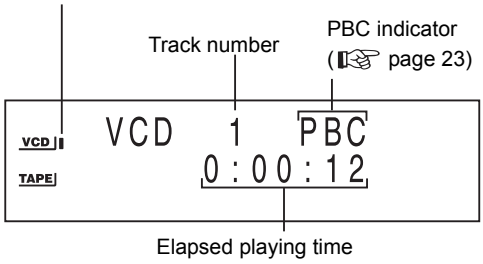


• "G1" and "T1" will appear after the total number of groups is displayed.

■Display for VCD/SVCD

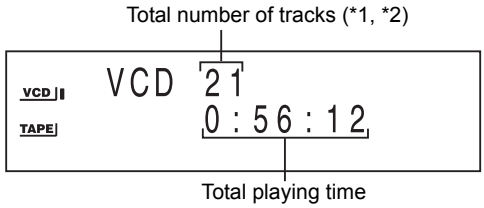
Display while a VCD/SVCD is being played back:

VCD indicator
(The VCD indicator lights up while the VCD/SVCD is stopped. The VCD indicator flashes while the VCD/SVCD is being played back or paused.)



• PBC indicator is displayed while PBC is activated.

Display while the VCD/SVCD is stopped:



*1 "1" will appear after the total number of tracks is displayed.
*2 "PBC" will appear when the disc is PBC-compatible.

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.

(Continued on next page)

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 21)

: Pause (☞ page 24)

: Fast reverse/Fast forward search (☞ page 24)

: Slow motion playback (reverse/forward directions)(☞ page 25)

: Containing multi-angle views (☞ page 27)

: Containing multi-audio (☞ page 26)

: Containing multi-subtitle (☞ page 27)

: 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, press RETURN to return to the higher menu group.

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

DVD VIDEO

■While a disc is being played back

Press ↩.

NOTE
- This operation may not be carried out for some discs.
- You cannot return to the previous title.

Stopping Playback

Used frequently

DVD VIDEO DVD AUDIO VCD SVCD CD MP3 WMA JPEG

■While a disc is being played back

Press ■.

Resuming Playback (RESUME)

DVD VIDEO DVD AUDIO VCD SVCD

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 39).**

Pausing Playback

DVD VIDEO DVD AUDIO 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 SVCD VCD DVD AUDIO (only for moving image)

■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 VCD SVCD CD

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

For the locations of remote control buttons, refer to page 21.

Slow Motion Playback

DVD VIDEO VCD SVCD DVD AUDIO (only for moving image)

■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 or SVCD, 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 VCD SVCD CD MP3 WMA JPEG

■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 ≪ or GROUP SKIP ≫ to select a title or group.

NOTE

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

Skipping to the Beginning of a Track with the Number Buttons

DVD VIDEO DVD AUDIO VCD SVCD CD MP3 WMA JPEG

■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 VCD or SVCD while the disc is stopped or played back with PBC off.
- You can operate a DVD AUDIO, CD, MP3, WMA, or JPEG while the disc is either played back or stopped.
- This operation may not be carried out for some discs.

Selecting a Track from the Menu Screen

DVD VIDEO DVD AUDIO VCD SVCD

■While a disc is stopped or being played back*

1 Set the remote control mode selector to AUDIO.

2 Press MENU ◯ or TOP MENU ◯.

- A menu screen of the disc appears.
- Only TOP MENU ◯ can be used for DVD AUDIOs.

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

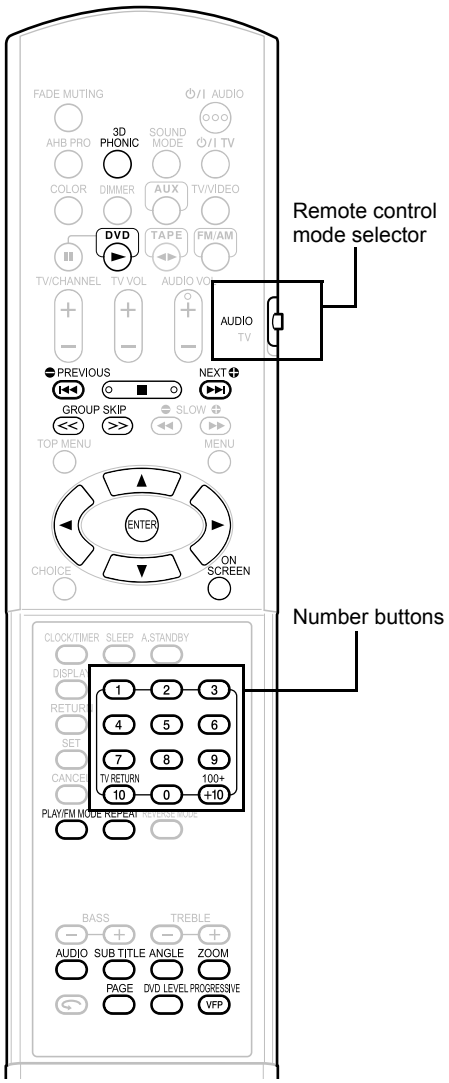
- Refer to "Using the number buttons" (☞ page 16).
- If there are two or more pages of menu screen, press PREVIOUS ⏮ or NEXT ⏭ to change the pages (only for a VCD or SVCD).

4 Press ENTER.

NOTE

* You can operate a VCD or SVCD while PBC is set to off.
- 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.

Convenient Functions of the DVD Player



NOTE

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

Selecting the Audio

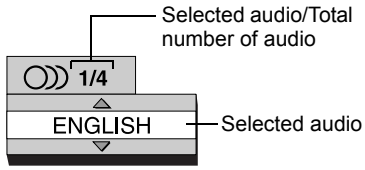
Used frequently

DVD VIDEO DVD AUDIO VCD SVCD

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

1 Press AUDIO.

Example: TV screen



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

2 Wait for a few seconds or press ENTER.

NOTE

- You can also operate this function by using the menu bar (☞ page 34).
- 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.

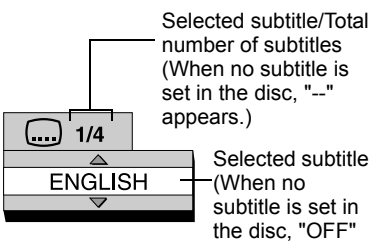
Selecting the Subtitle

DVD VIDEO SVCD DVD AUDIO
(only for moving image)

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

1 Press SUB TITLE.

Example: TV screen



2 Press ▲ ▼ to select a subtitle.

3 Wait for a few seconds or press ENTER.

NOTE

- You can also operate this function by using the menu bar (☞ page 34).
- 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".

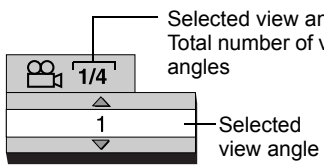
Selecting a View Angle

DVD VIDEO DVD AUDIO
(only for moving image)

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

1 Press ANGLE.

Example: TV screen



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

2 Wait for a few seconds or press ENTER.

NOTE

- You can also operate this function by using the menu bar (☞ page 34).

Magnifying the Picture (ZOOM)

DVD VIDEO VCD SVCD DVD AUDIO JPEG
(only for moving image)

■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.

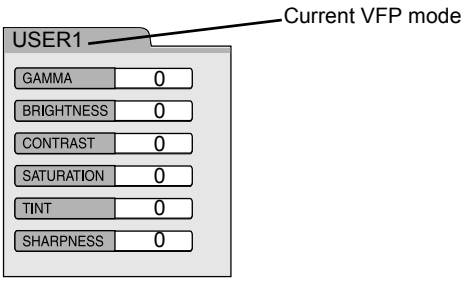
Adjusting the Picture Quality (VFP)

DVD VIDEO DVD AUDIO VCD SVCD JPEG

■While a disc is played back or paused

1 Press (VFP).

Example: 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:

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 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: TV screen

• Each time you press (3D PHONIC), the display toggles 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 (initial 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".
- You cannot operate some types of DVD AUDIO 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 toggles as follows in the display window.

NORMAL : Sound level recorded in the DVD.
↓
MIDDLE : Enhances the sound level (initial 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 recording sound.

Enjoying Better Pictures (PROGRESSIVE)

In the progressive mode, you can enjoy better pictures.

CAUTION

- In order to enjoy pictures in the progressive mode, the following requirements should be met.
  - There must be component video input terminals on the TV set connected to the main unit.
  - The main unit and the TV set must be connected using a component video cord (☞ page 15).

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

■While the disc is played back or paused

Hold down PROGRESSIVE VFP **.**

- Each time you press PROGRESSIVE VFP, the display toggles as follows.

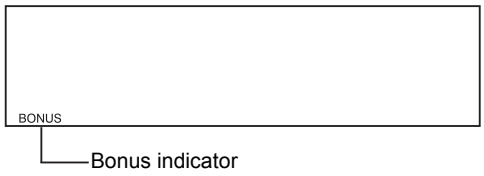
Interlace mode (initial setting)

Progressive mode

Playing Back the Bonus Group

DVD AUDIO

There are some DVD AUDIO discs with a special group, called "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 a pin code (4 digits).

- The method of getting a pin code is different depending on the disc.

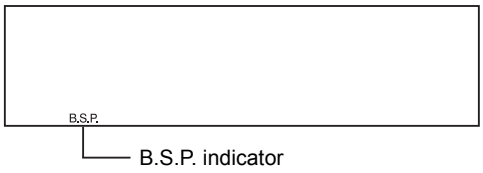
4 Press (ENTER).

- 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.



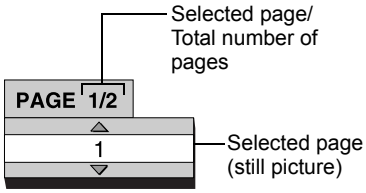
- This operation can be carried out when "B.S.P." is lit in the display window on the main unit.

■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 ▲ ▼.

Example: TV screen



2 Wait for a few seconds or press (ENTER).

NOTE

- You can operate this function on the menu bar (☞ page 34).

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

DVD VIDEO DVD AUDIO VCD SVCD CD MP3 WMA

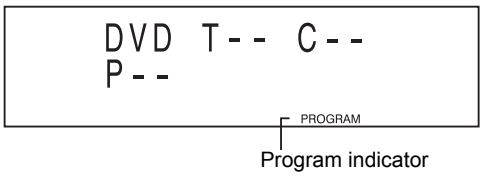
You can program a maximum of 99 chapters or tracks. You can program the same chapter or track more than once.

■While a disc is stopped

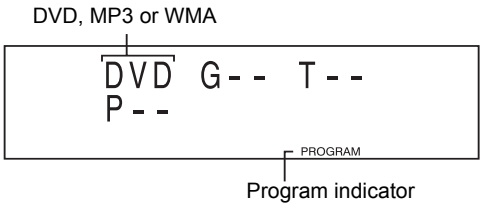
1 Set the remote control mode selector to AUDIO.

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

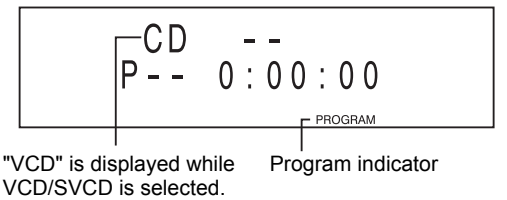
■Display for DVD VIDEO



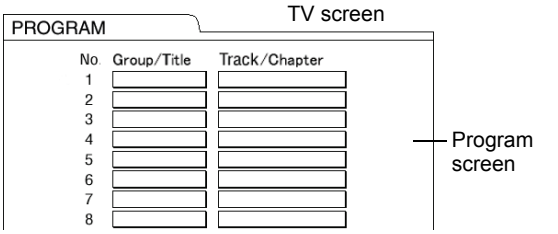
■Display for DVD AUDIO/MP3/WMA



■Display for CD/VCD/SVCD



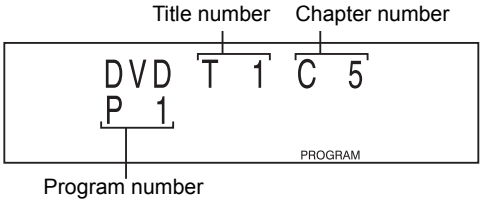
Example: For DVD VIDEO



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

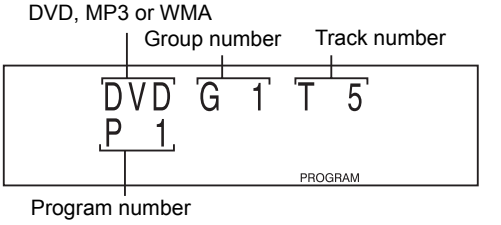
■Display for DVD VIDEO

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



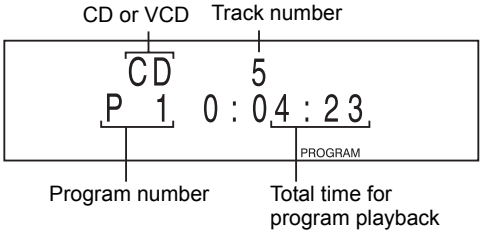
■Display for DVD AUDIO/MP3/WMA

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



■Display for CD/VCD/SVCD

- Select a track number.



Example: For DVD VIDEO

TV screen

PROGRAM

No.	Group/Title	Track/Chapter
1	1	5
2		
3		
4		
5		
6		
7		
8		

- 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 30.
- When you try to enter more than 99 chapters or tracks, "MEMORY FULL" appears.

4 Press DVD.

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.

For the locations of remote control buttons, refer to page 26.

Repeat Playback

DVD VIDEO DVD AUDIO VCD SVCD CD

Refer to page 37 for repeat playback of MP3/WMA and JPEG files.

■While a disc is being played back

Press REPEAT.

- Each time you press REPEAT, the repeat type will be changed.

For DVD VIDEO

Repeat types	Display on the TV screen	Display in the display window on the main unit
Repeats the current chapter	CHAP*	REPEAT CHAPTER*
Repeats the current title	TITLE	REPEAT TITLE ALL
Cancels repeat	OFF	REPEAT OFF

For DVD AUDIO

Repeat types	Display on the TV screen	Display in the display window on the main unit
Repeats the current track	TRACK*	REPEAT TRACK*
Repeats the current group	GROUP	REPEAT GROUP GROUP
Cancels repeat	OFF	REPEAT OFF

For CD/VCD/SVCD

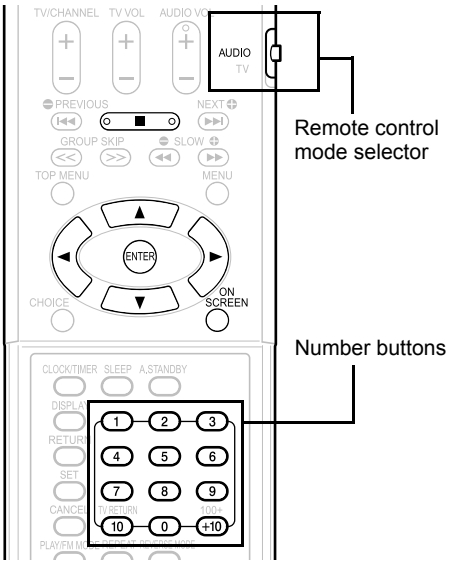
Repeat types	Display on the TV screen	Display in the display window on the main unit
Repeats the current track	TRACK*	REPEAT TRACK*
Repeats all tracks	ALL	REPEAT ALL ALL
Cancels repeat	OFF	REPEAT OFF

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

NOTE

- For a VCD and SVCD, the operation can be carried out during playback without the PBC function (☞ page 23).
- You can also operate this function on the menu bar (☞ page 34).
- For details on A-B repeat (repeat playback of a designated part), refer to page 35.

Status Bar and Menu Bar



DVD VIDEO DVD AUDIO VCD SVCD CD

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

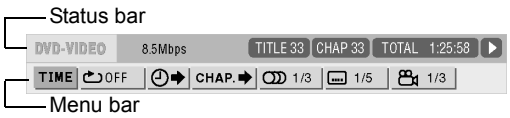
CAUTION

- 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.

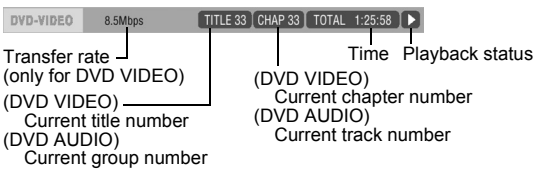
Function list

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

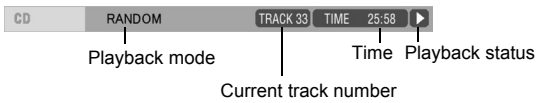
TIME Time display selection	Changes time information displayed in the display window on the main unit and the status bar. Each time ENTER is pressed, the display will be changed. **DVD VIDEO/DVD AUDIO** TOTAL : Elapsed playing time of current title/group T.REM : Remaining time of current title/group TIME : Elapsed playing time of current chapter/track REM : Remaining time of current chapter/track **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 33
Time search	page 35
CHAP. / TRACK Chapter search/ Track search	**DVD VIDEO/DVD AUDIO** 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/VCD/SVCD** page 26
Subtitle	**DVD VIDEO/DVD AUDIO/SVCD** page 27
1/3 View angle	**DVD VIDEO/DVD AUDIO** page 27
PAGE -/- Page switch	**DVD AUDIO** Switches the still pictures (B.S.P.) recorded on a DVD AUDIO disc. page 30

Information displayed on the status bar

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



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



NOTE

- The playback status mark has the same meaning of the mark on the on-screen guide (page 23).

For the locations of remote control buttons, refer to page 34.

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

DVD VIDEO DVD AUDIO VCD SVCD CD

■While a disc is being played back

1 Press ON SCREEN twice.

• The menu bar (☞ page 34) 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

- You can operate a VCD and SVCD while the disc is played back with PBC off.
- 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 VCD SVCD CD

■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 34).

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.

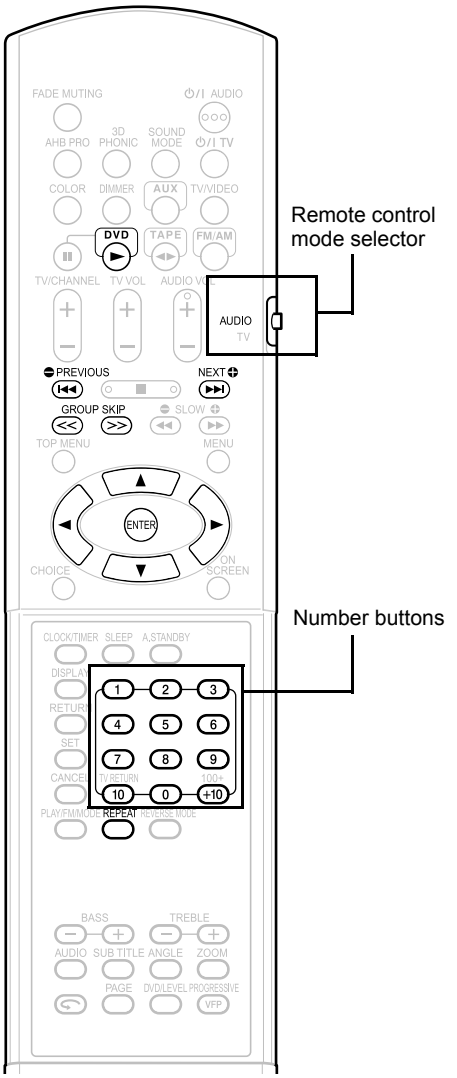
6 Press ENTER.

• To delete the menu bar, press ON SCREEN.

NOTE

- You may not be able to operate this function depending on the disc.
- This function does not work during program playback or random playback.
- For a CD, this operation can always be carried out. For a VCD or SVCD, the operation can be carried out when the disc is stopped or during playback without the PBC function.
- 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

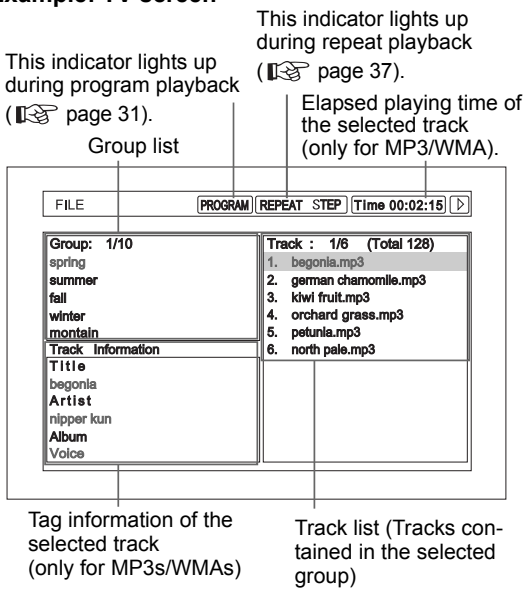
Display of an MP3/WMA disc is described here as an example.
For a JPEG disc, read "track" as "file".

NOTE

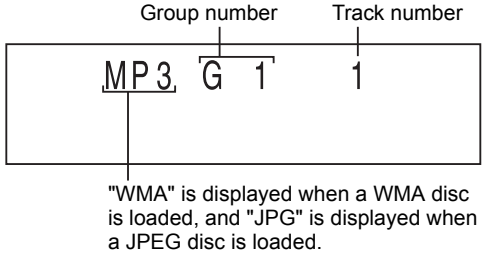
- When playing back a disc containing both MP3/WMA and JPEG files, set one of them to be played (☞ page 38).

1 Insert a disc.

Example: TV screen



Example: Display window



2 Press ▲ ▼ to select a group.

3 Press ► to move to the track list.

- Pressing ◄ returns to the group list.

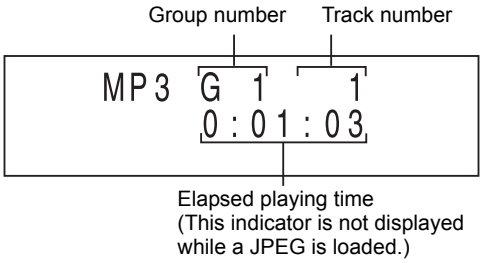
(Continued on next page)

For the locations of remote control buttons, refer to page 36.

4 **Press ▲ ▼ to select a track.**

5 **Press DVD ► or ENTER.**

Example: Display 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 << and 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.

Repeat Playback

MP3 WMA JPEG

■While a disc is being played back

Press REPEAT.

- Each time you press REPEAT, the repeat type is changed.

Repeat types	Display on the TV screen	Display in the display window on the main unit
Repeats the current track (only for MP3/WMA)	REPEAT TRACK*	REPEAT* TRACK ↻
Repeats the current group	REPEAT GROUP	REPEAT GROUP ↻GROUP
Repeats the entire disc	REPEAT ALL	REPEAT ALL ↻ALL
Cancels repeat playback	No display	REPEAT OFF

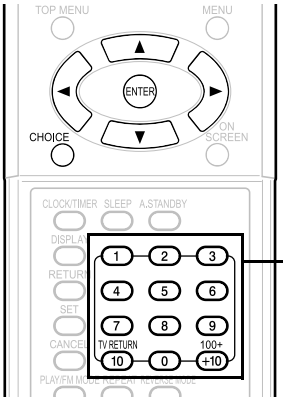
* "STEP" is displayed during program playback and random playback.

NOTE

- The repeat types can also be changed while the disc is stopped.
- The repeat playback is automatically canceled if there is a file that cannot be played back (☞ page 4).

Preferences

DVD VIDEO DVD AUDIO VCD SVCD CD MP3 WMA JPEG



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

CAUTION

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

NOTE

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

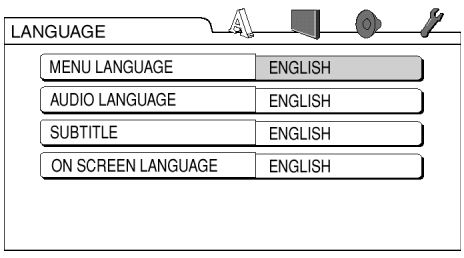
Basic Operations

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 CHOICE **.**

- "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.

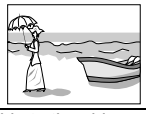
LANGUAGE

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. **VIDEO:** Select this item when you want to view a normal video. **FILM:** Select this item when you want to view a film or video recorded with the progressive scan method. **AUTO:** The video source type (a video or film) is automatically selected.
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. If you change this setting, open and close the disc tray, or momentarily turn off the main unit. (A disc either with audio files or still picture files can be played back regardless of this setting.)

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	**(☞ page 24)**
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 23)**
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. **DVD2:** Connect to the video-1 input of the TV set. **DVD3:** Connect to the video-2 input of the TV set.
PARENTAL LOCK	**Set the parental lock function to cut off violent scenes or replace the scenes with others. (This is effective only for discs equipped with the parental lock function.)** **COUNTRY CODE (☞ page 40)** Select your country or area. **SET LEVEL:** The restriction is stricter as the number becomes smaller. "NONE" is no restriction. **PASSWORD (essential):** Enter four-digit number as your password using the number buttons (1-9, 0) every time. (Enter "8888" if you forget your password.) The password is required at the time of playback. • If you enter a wrong password three times, "EXIT" will be automatically selected.

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

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

NOTE

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

Country/Area Codes

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

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

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

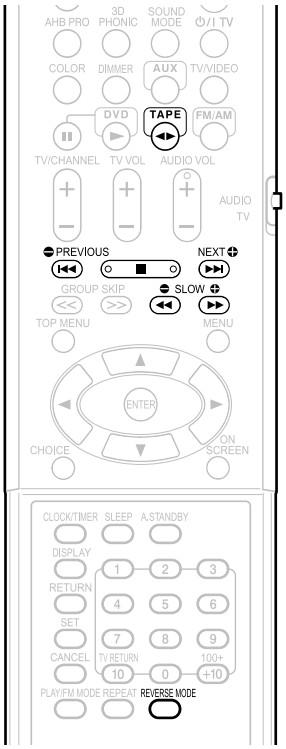
SD	Sudan
SE	Sweden
SG	Singapore
SH	Saint Helena
SI	Slovenia
SJ	Svalbard and Jan Mayen
SK	Slovakia
SL	Sierra Leone
SM	San Marino
SN	Senegal
SO	Somalia
SR	Suriname
ST	Sao Tome and Principe
SV	El Salvador
SY	Syrian Arab Republic
SZ	Swaziland
TC	Turks and Caicos Islands
TD	Chad
TF	French Southern Territories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

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		

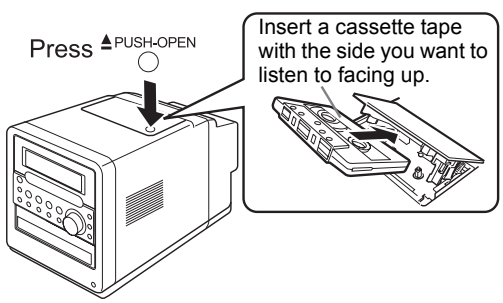
Listening to Cassette Tapes

Used frequently

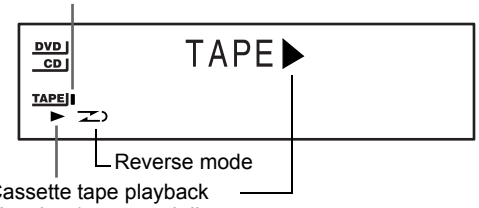


	Operation
Stop	Press ■.
Fast forward/ Rewind	Press ⏭ or ⏮. • When a cassette tape is played back in the normal direction (►), ⏭ is fast forward and ⏮ is rewind. • When the cassette tape is played back in the opposite direction (◄), ⏮ is fast forward and ⏭ is rewind. • You can perform the same operation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

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. (☞ 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.

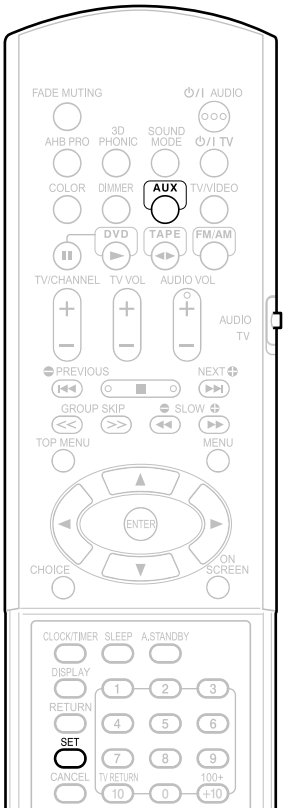
2 Press REVERSE MODE repeatedly to select the reverse mode.

- : 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.

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

Adjusting the sound input level of the AUX

1 Press AUX.

2 Hold down SET until the input level appears.

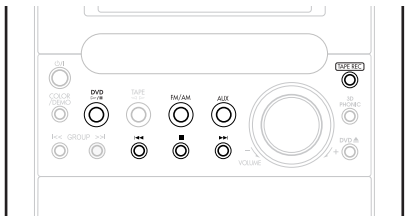
- Each time you hold down SET, the display toggles as follows.

LEVEL 1 — For ordinary use. (initial setting)

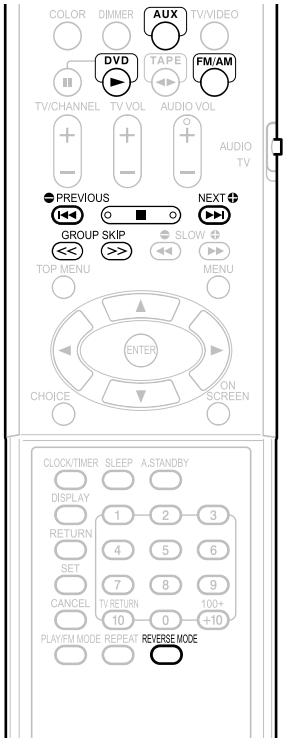
LEVEL 2 — For increasing the level.

Recording Sound to Cassette Tapes Used frequently

Main unit



Remote control



NOTE

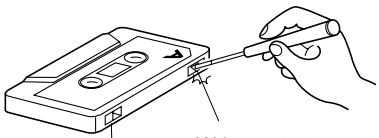
- The sound input level during recording is automatically adjusted.
- When you record tracks from a disc, a 4-second blank is inserted between tracks in the recording. You can record tracks with no blank time.
  (☞ page 45)

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.

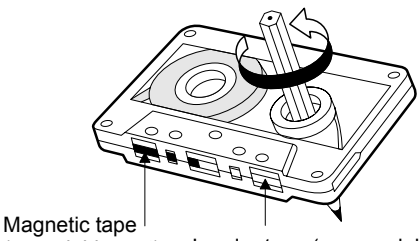
Preventing recorded sound from being erased

- 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 toggles as follows.

: For one-way recording on either side.

: For one return recording on both sides.

: Pressing TAPE REC automatically starts one return recording on both sides.

- 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.

Sound source	Operation
Disc	Press DVD, and then press ■. (The disc is stopped.)
Radio broadcast	Select the radio station whose broadcast you want to record (☞ page 19).
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 pattern of the display window and disc tray switches to the color pattern set in "MANUAL" to inform you that recording has finished (☞ page 18).

Quitting Recording

Press ■.

Recording Only One Track from a Disc

(Excluding DVD VIDEOs)

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.

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

(For a DVD VIDEO: while the disc is paused)

■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 31).

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.

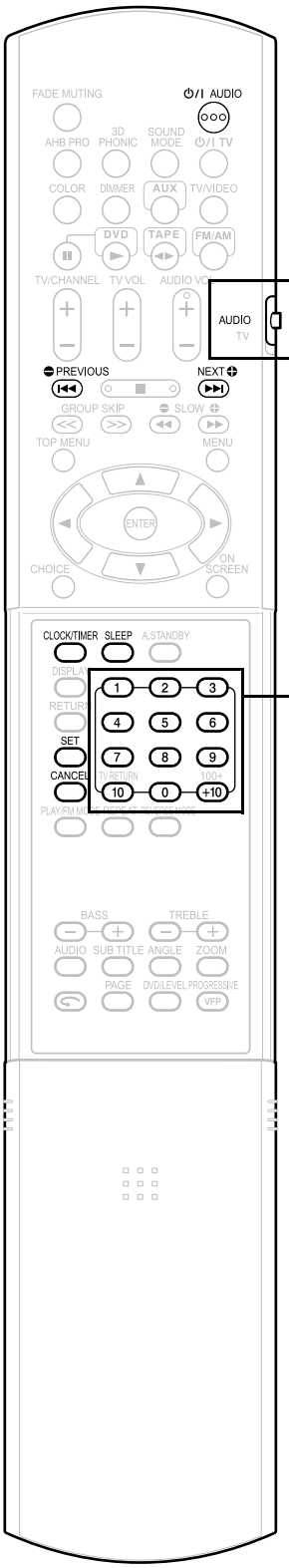
- Do not play back any tracks on the connected equipment.

NOTE

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

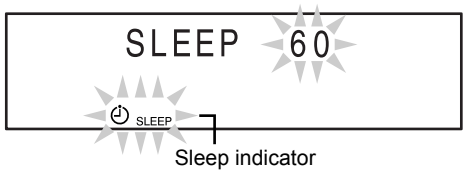
When the specified time passes, the main unit automatically turns off.

Press SLEEP.

- Each time you press SLEEP, the time display (in minutes) toggles 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.

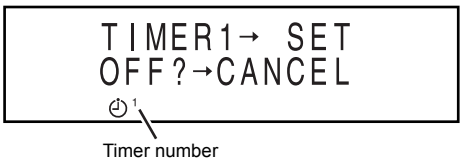
1 Prepare the sound source.

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".

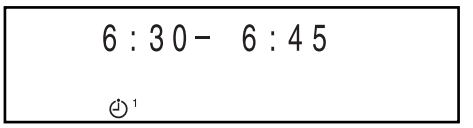
Example: When "TIMER1" is selected



4 Press SET.

5 Press PREVIOUS, NEXT or 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 clock, refer to "Setting the Clock" (☞ page 16).

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

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

ONCE : The recording timer works once.
EVERYDAY : The recording timer works every day.

7 Press SET.

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

- "REC" stands for "Recording".

9 Press SET.

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

11 Press SET.

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

12 When the main unit is on, 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 then press SET repeatedly until all of the setting procedure finishes. Then turn off the main unit.

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 cut, the recording timer settings may be lost. If the settings are lost, set the clock and recording timer again.

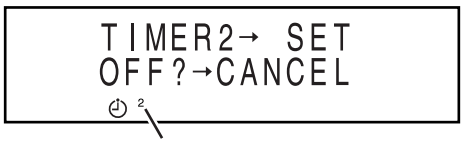
Playback Timer

1 Prepare the sound source you want to play back.

Disc	Make sure that a disc is loaded. (☞ page 21)
Cassette tape	Insert a cassette tape. (☞ page 42)
Radio	Preset the radio station whose broadcast you want to listen to. (☞ page 20)
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

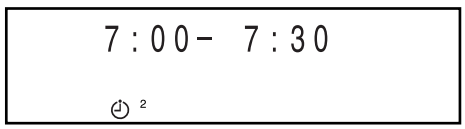


Timer number

3 Press SET.

4 Press PREVIOUS, NEXT or 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 "Setting the Clock" (☞ page 16).

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

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

ONCE : The playback timer works once.
EVERYDAY : The playback timer works every day.

6 Press SET.

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

(Continued on next page)

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

8 Press SET.

9 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 or random playback of a disc.

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

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

- (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 or DVD AUDIO 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).

10 Press SET.

11 Press PREVIOUS or NEXT to adjust the playback volume.

12 Press SET.

- The settings appear in the display window.

13 When the main unit is turned on, press ⏻/I AUDIO to turn off the main unit.

- The playback 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 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.

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.

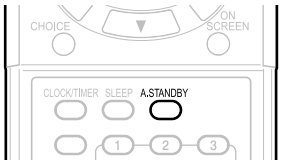
Activating the playback timer again

In step 2 on page 48, select the timer number you want to activate, and then press SET repeatedly until all of the setting procedure finishes. Then turn off the main unit.

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 cut, 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

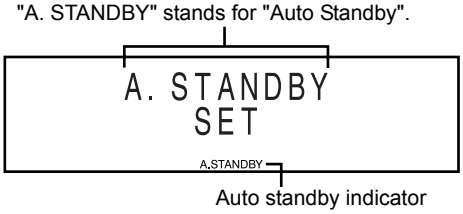


If no sound is produced for 3 minutes when the disc or cassette tape is selected as a sound source, the main unit automatically turns off.

■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.

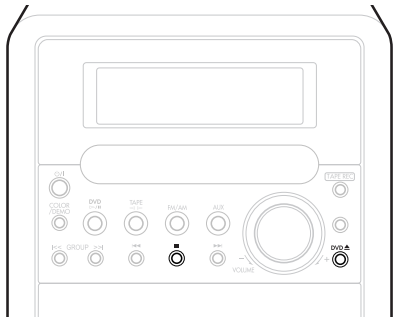
Canceling auto standby

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.

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

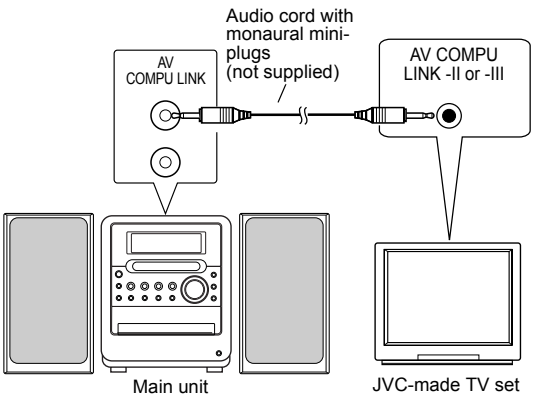
Carry out the operation explained above once again.

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 39) 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

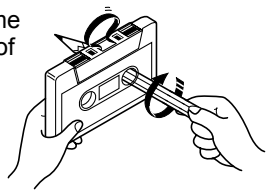
Wipe a disc from the center outward with a soft cloth.

Scratches concentrated on a certain part cause sound dropout.

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

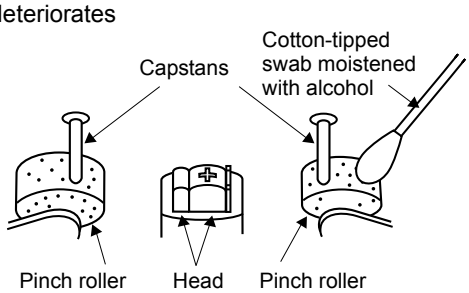
Handling cassette tapes

- 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.	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.	21
	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, 12
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
You cannot set the timer.	You did not set the clock.	Set the clock.	16
The timer does not work.	The main unit is turned on.	After setting the timer, turn off the main unit.	47, 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
When you turn on the main unit, a noise comes out from the rear of the main unit.	The internal cooling fan produces the 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-UXQD9S)

Amplifier

Output power	20 W + 20 W at 4 Ω (10% THD)
Input terminals	
<Analog>	AUX×1, 500 mV/47 kΩ:LEVEL1 250 mV/47 kΩ:LEVEL2
Output terminals	
<Analog>	Speaker×1, 20 W/4 Ω Impedance 4 Ω - 16 Ω Headphone (×1), 25 mW/32 Ω Impedance 16 Ω - 1 kΩ
<Digital>	DVD/CD optical input × 1 -23 dBm to -15 dBm (Optical square terminal)
<Other>	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)

DVD player

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

Cassette deck

Frequency response	
Normal (type I)	60 Hz - 14 000 Hz
Wow and flutter	0.15% (WRMS)

General

Power requirement	AC 230 V∿, 50/60 Hz
Power consumption	70 W (at operation) 1.3 W (on standby)
Dimensions	165 mm (W) × 200 mm (H) × 355 mm (D)
Mass (approx.)	4.6 kg

■Speaker (SP-UXQD9S)

System	3-way bass reflex type, Magnetically shielded type
Speakers	Woofer: 10 cm × 1 Midrange: 4 cm × 1 Tweeter: 1.5 cm × 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) × 204.5 mm (D)
Mass (approx.)	2.2 kg (1 unit)

■Micro component system (UX-QD9S)

General

Dimensions	445 mm (W) × 231 mm (H) × 355 mm (D)
Mass (approx.)	9.0 kg

• U.S. and foreign patents licensed from Dolby Laboratories.

UX-QD9S MICRO COMPONENT SYSTEM

JVC

EN, CS

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1004SKMMODJEM

English

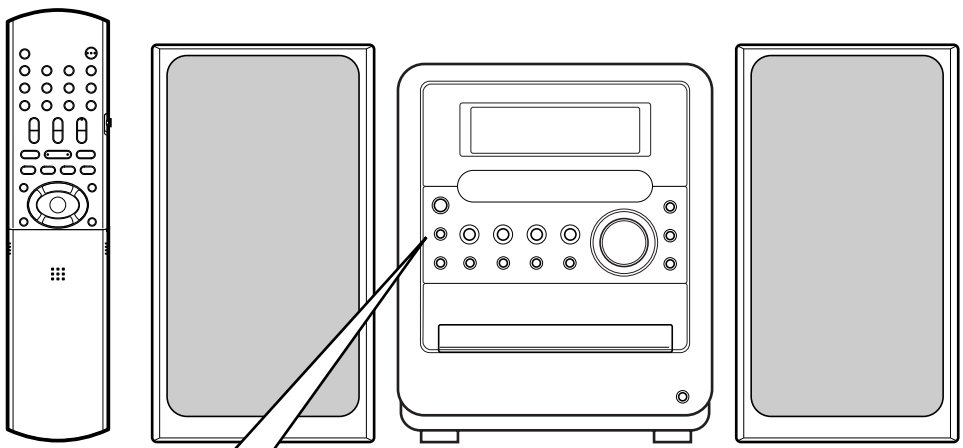
中文

JVC

MICRO COMPONENT SYSTEM
微型组合音响

UX-QD9S

Consists of CA-UXQD9S and SP-UXQD9S
由 CA-UXQD9S 和 SP-UXQD9S 组成



For hiding the demonstration display, refer to page 15.
有关隐藏演示显示的详情，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

LVT1220-004A
[UN]

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 ⏻/I button in any position does not disconnect the mains line.
The power can be remote controlled.

注意－ ⏻/I 开关！

想要完全关闭电源，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。
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相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

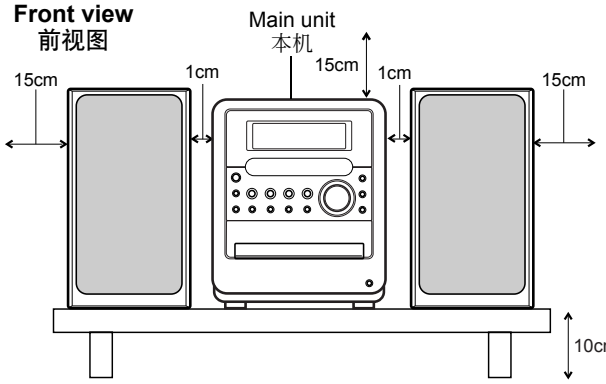
为了防止触电，火灾及避免损坏，

按如下要求放置机器：

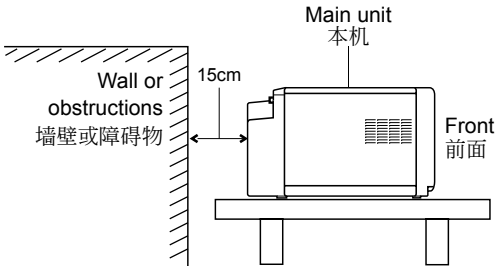
上面 / 前面 / 后面 / 侧面：	在图中所示范围中，不应放置任何障碍物。
底部：	放置在水平面上。放置在一个高 10 cm 或更高的台上以保留足够的通风道。

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



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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.

Playable Disc Types

This product has been designed to play back the following discs:
DVD VIDEO, DVD AUDIO, VCD, SVCD, CD
This product can also play back the following discs:

- Finalized DVD-R/RW discs recorded in the DVD VIDEO format.
- CD-R/RW discs recorded in the following formats

- Music CDs (finalized discs)
- VCDs
- SVCDs
- MP3/WMA/JPEG discs recorded in ISO 9660 (for details, refer to "About MP3/WMA/JPEG discs")

However, some discs may not be played back because of their disc characteristics, recording conditions, or damage or stain on them.
Only sounds can be played back from the following discs:

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

Discs you can play:

Disc Type	Mark (Logo)	Video Format	Region Code Number*
DVD VIDEO	DVD VIDEO ™ DVD VIDEO	PAL/ NTSC	3/ALL
DVD AUDIO	DVD AUDIO/VIDEO ™ DVD AUDIO	—	—
VCD	COMPACT disc DIGITAL VIDEO Video CD	PAL/ NTSC	—
SVCD	COMPACT disc SUPER VIDEO VIDEO CD	PAL/ NTSC	—
CD	COMPACT disc DIGITAL AUDIO	—	—
CD-R	COMPACT disc DIGITAL AUDIO Recordable	—	—
CD-RW	COMPACT disc DIGITAL AUDIO ReWritable	—	—

DVD Logo is a trademark of DVD Format/Logo Licensing Corporation.

* **Note on Region Code**
DVD players and DVD VIDEOs have their own region code numbers. This product can only play back a DVD VIDEO recorded with the region code number and video format mentioned above.

Examples:

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

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

About CD-Rs/CD-RWs

You can play back a CD-R/CD-RW only when the disc is finalized.

- You can play back a CD-R/CD-RW which has been recorded in the audio CD format and a CD-R/CD-RW to which audio data (MP3/WMA) or a still picture data (JPEG) file is recorded.
  However, 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 CD-R/CD-RW, 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 on this product, erase all tracks if the CD-RW was recorded in a format other than the audio CD format. Using the CD-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, DVD-RAM, DVD-RW (recorded in VR format), CD-ROM, CD-I (CD-I Ready), Photo CD, SACD, etc.
  Playing back these discs will generate noise and damage the speakers.
- Damaged discs and discs in an extraordinary shape (other than a disc of 12 cm or 8 cm in diameter) cannot be played back.
- 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

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

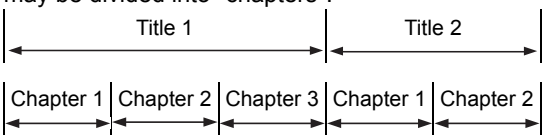
Notes on MP3/WMA/JPEG discs and files

- 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 PC's monitor screen.
- In the case of MP3/WMA discs, since groups/tracks are played back in alphabetical order, an off-the-shelf 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/WMA 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/WMA 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 is applied such as the automatic rotation function of a digital camera, data goes beyond the DCF standard, so the image may not be displayed).
- If data has been processed, edited and restored with PC image editing software, the data may not be displayed.
- This product cannot play back animations such as MOTION JPEG, or still pictures (TIFF etc.) other than JPEG, and 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.
- Files recorded on DVD-R/RW discs cannot be played back.

Disc Structure

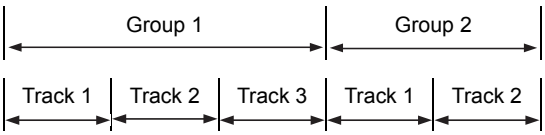
DVD VIDEO

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



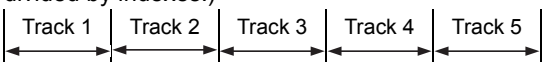
DVD AUDIO

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 30).



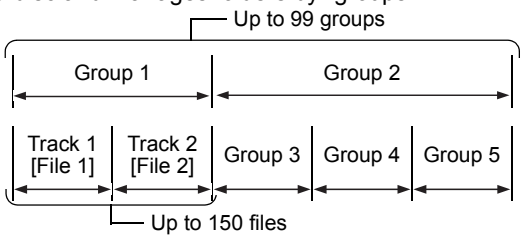
VCD/SVCD/CD

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



MP3/WMA [JPEG] discs

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

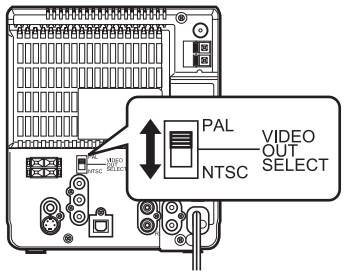


This product can recognize up to 1 000 tracks [files] in a disc. Also, the product can recognize up to 150 tracks [files] per group and up to 99 groups in a disc. Since the unit ignores the tracks [files] whose numbers are exceeding 150 and the groups whose numbers are exceeding 99, they cannot be played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

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

Selecting the Color System

This product is compatible with PAL and NTSC color systems.
In standby mode, select PAL or NTSC to match your TV.
If the VIDEO OUT SELECT switch is switched over when the power is on, turn off the power, and then turn it on again.



Color system of TV	VIDEO OUT SELECT
Multi-color system	PAL or NTSC*
PAL	PAL
NTSC	NTSC

* Set the color system of the unit and TV to match the playback disc.

- 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 38).

NOTE

- If you play back an NTSC disc with this setting set to "PAL", 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.

NOTE

- If you play back a PAL disc with this setting set to "NTSC", 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.

Special Cautions

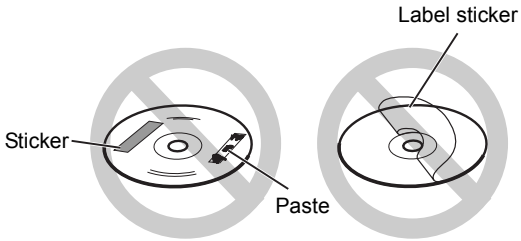
Notes on Handling

■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

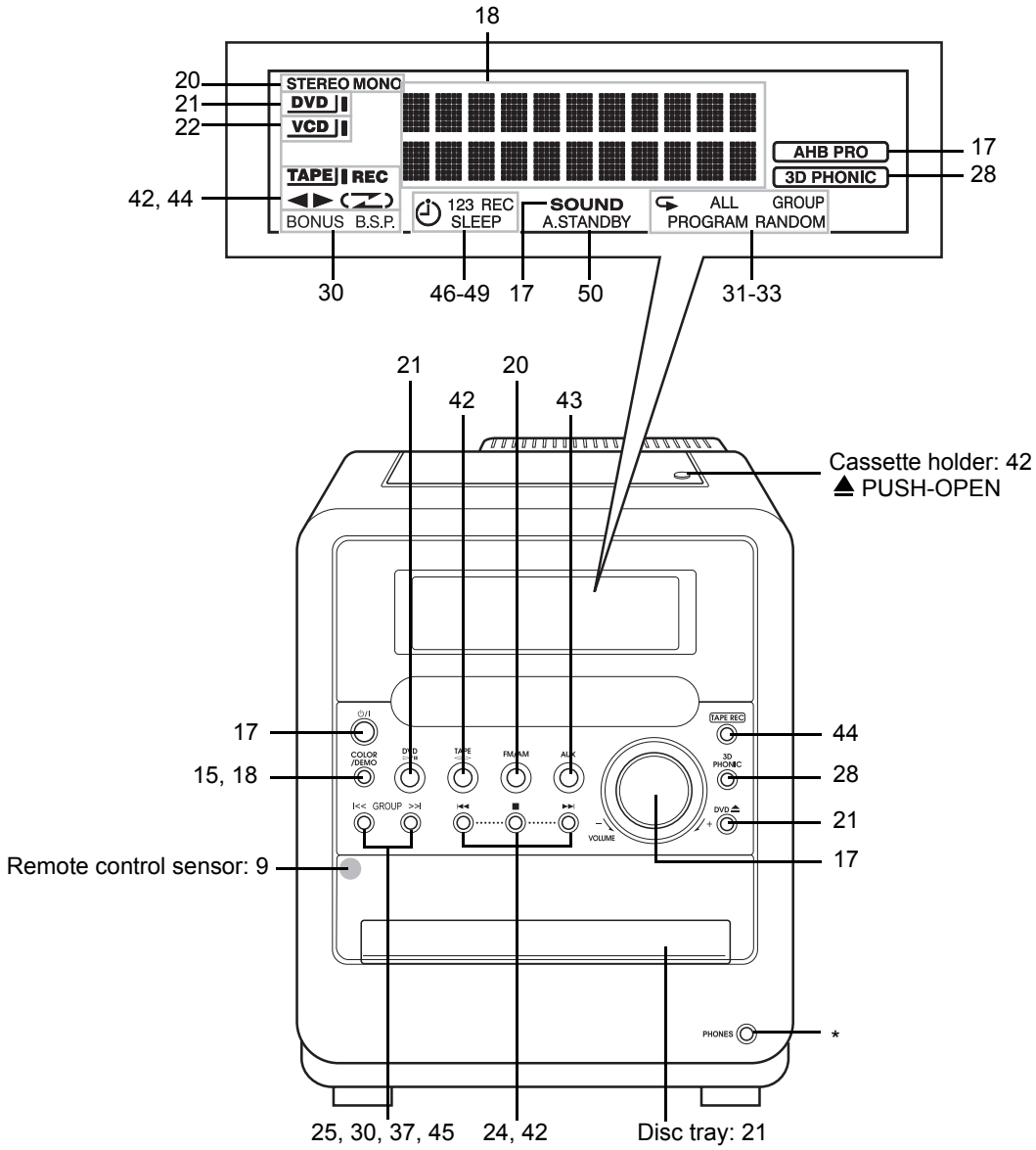
Check to be sure you have all of the supplied accessories.
The number in parentheses is the quantity of the pieces supplied. If anything is missing, contact your dealer immediately.

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.

Part Description

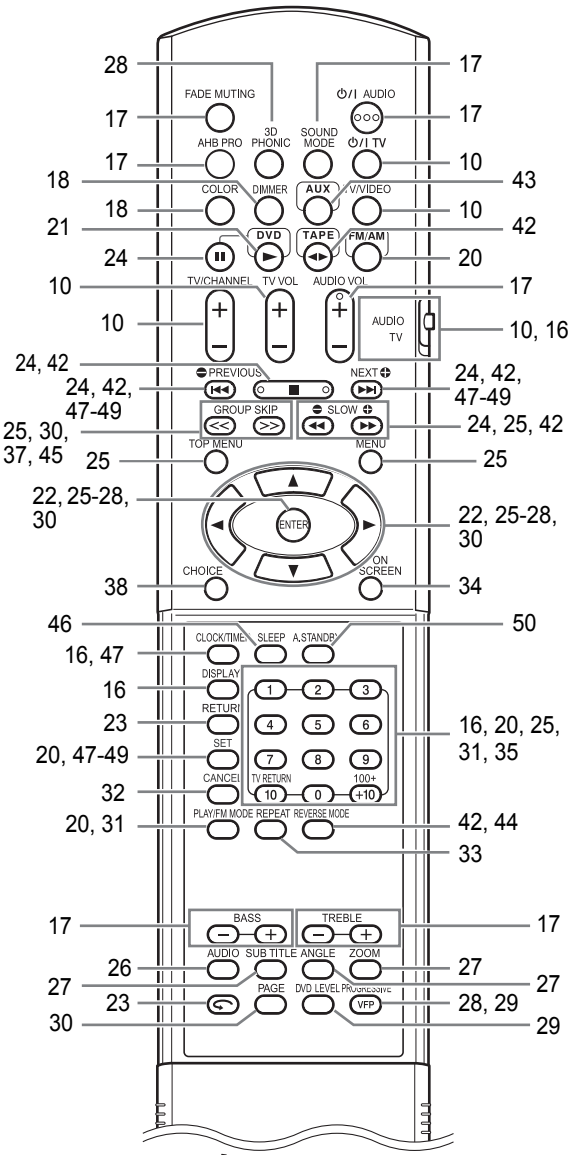
The numbers refer to the pages in which the parts are explained.



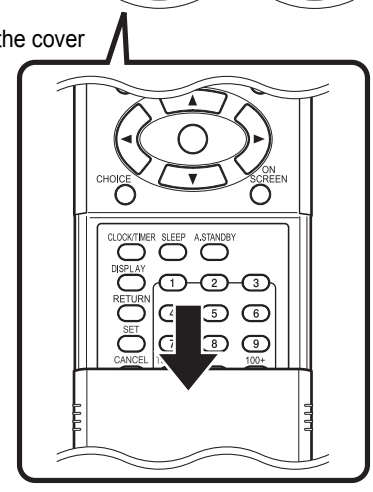
* This terminal is for connecting a pair of headphones equipped with a stereo mini plug (not supplied). While the headphones are connected, the speakers do not produce any sound.

Remote Control

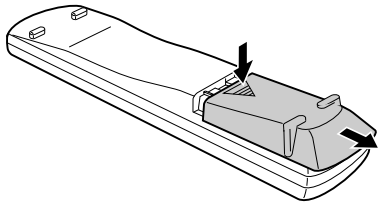
The numbers refer to the pages in which the parts are explained.

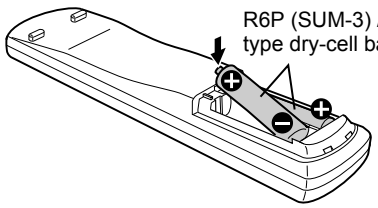


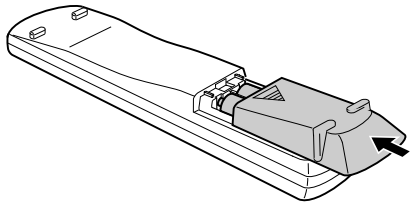
Opening the cover



Inserting Batteries into the Remote Control







CAUTION

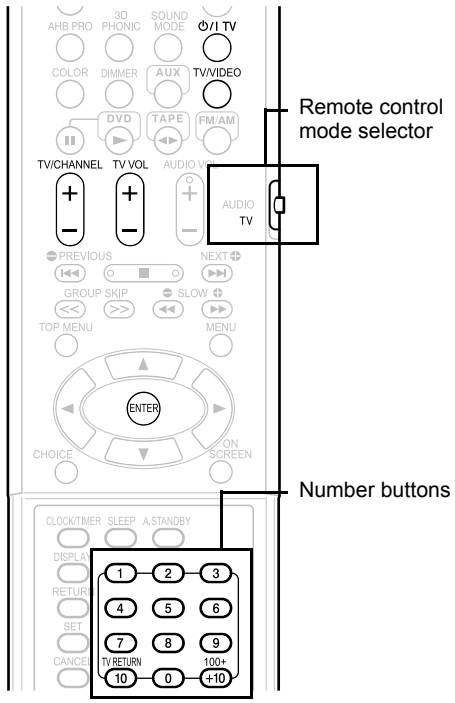
- Do not use a used battery and a new battery together.
- Do not use different types of batteries at the same time.
- Take out the batteries if the remote control is not to be used for a long time. Otherwise it may cause a leakage.

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.

NOTE

- 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 causes the product to work properly.

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

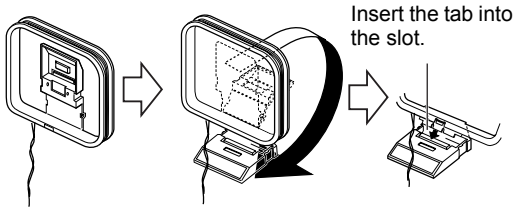
NOTE

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

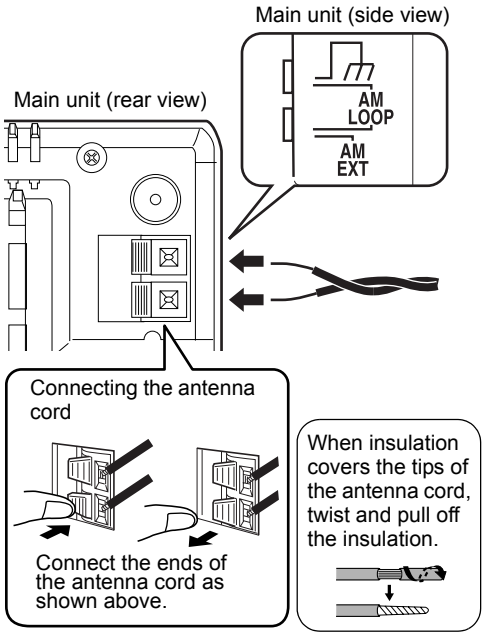
Connecting the Antennas

Connecting the AM antenna

1 Set up the AM antenna (supplied).



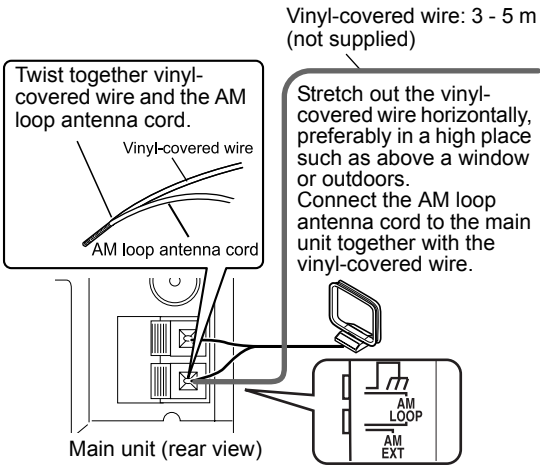
2 Connect the antenna cord.



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.

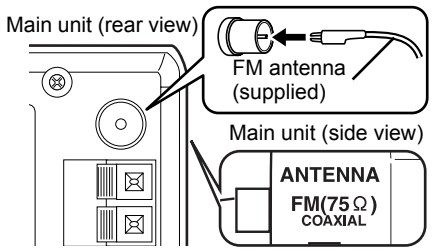
- Do not place the AM loop antenna on a metallic table or close to a TV, computer, or other electric appliances. Doing so may affect radio reception.

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

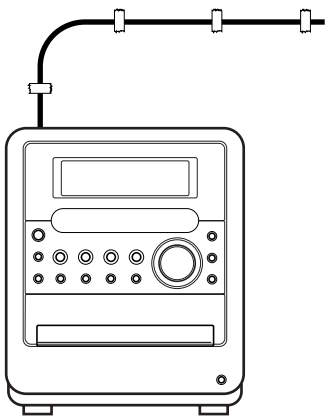


When positioning the antennas, find the best position for reception while listening to an actual radio program (refer to "Listening to Radio Broadcasts" (☞ page 19)).

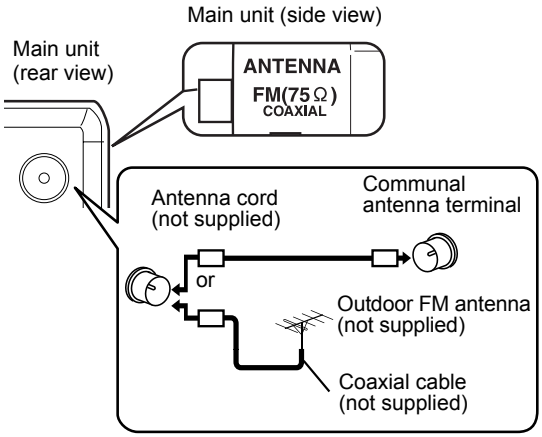
Connecting the FM antenna



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

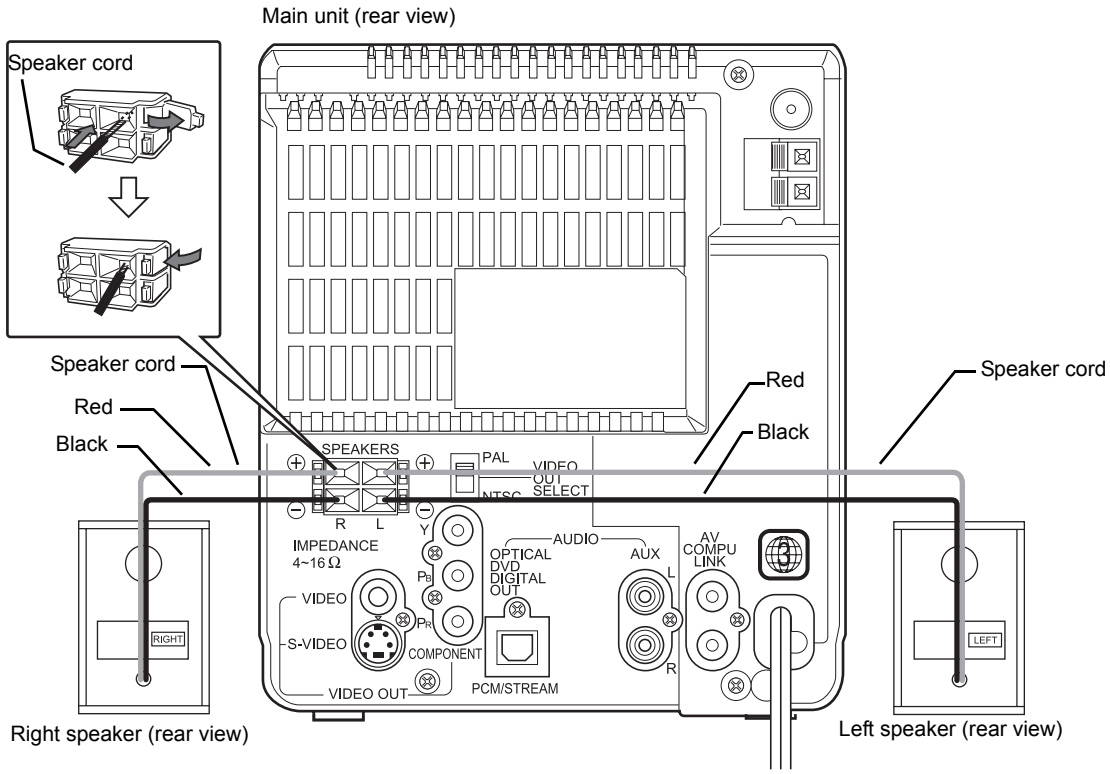


When using an antenna other than those supplied with this product, refer to the operation manuals for the antenna for details of connection.

When positioning the antennas, find the best position for reception while listening to an actual radio program (refer to "Listening to Radio Broadcasts" (☞ page 19)).

Connecting the Speakers

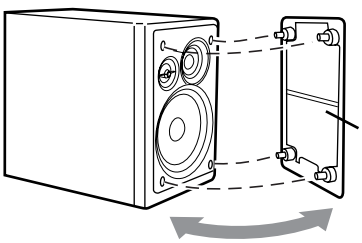
After connecting the speakers, gently pull on the speaker cords to make sure the cords are firmly connected and do not pull out.



CAUTION

- Do not short-circuit the ⊕ and ⊖ speaker terminals. Doing so may damage the speakers.
- 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 a distance of more than 10 cm between the TV and the speakers.

You can detach the speaker cover.

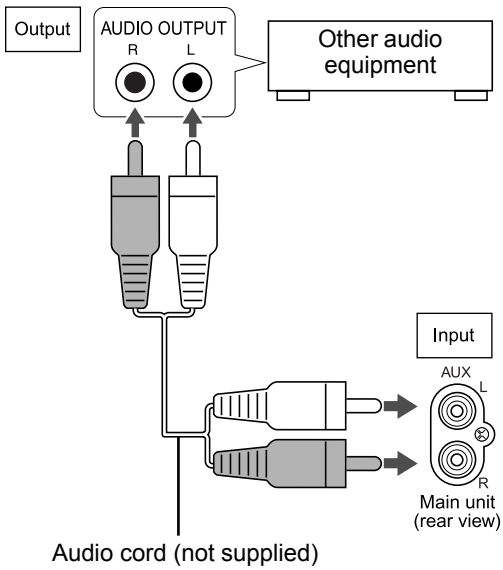


NOTE

- 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.
- 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. To ensure sufficient cooling, leave a space of more than 1 cm between the main unit and the speakers or other objects.

Connecting Other Equipment

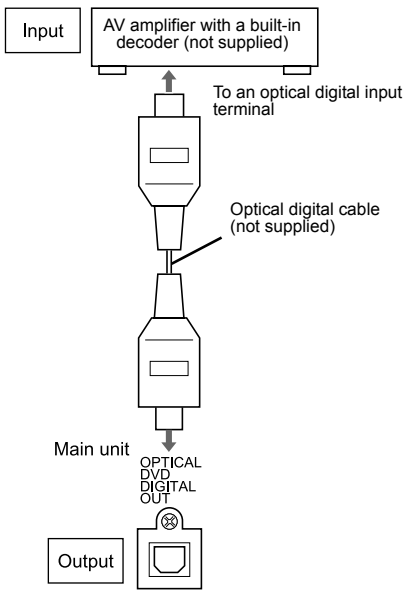
Read this section when connecting other audio equipment to this product.



CAUTION

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

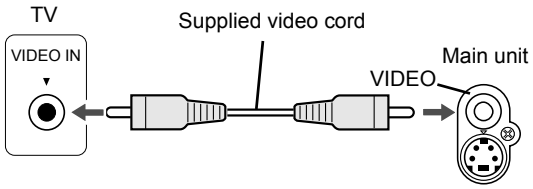
Connecting with digital equipment



CAUTION

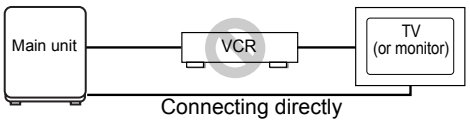
- For details of signals to be output, refer to page 39.
- If connecting the main unit to equipment that has the function of a Dolby Digital decoder, the setting in "D. RANGE COMPRESSION" of "AUDIO" (☞ page 39) will be invalid regarding sound from the digital audio output of the main unit.

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 thus it 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.

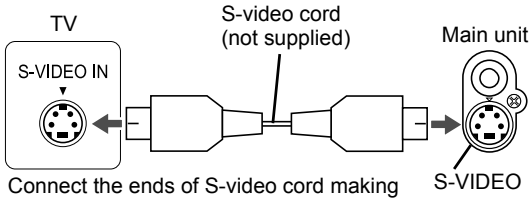
NOTE

- Please check that the setting for VIDEO OUT SELECT (PAL/NTSC) on the rear panel of the main unit and the color system on your TV set are the same. (☞ page 6)
  You need to set "MONITOR TYPE" in the "PICTURE" menu correctly according to the aspect ratio of your TV. (☞ page 38)

When a Clearer Picture Is Desired

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

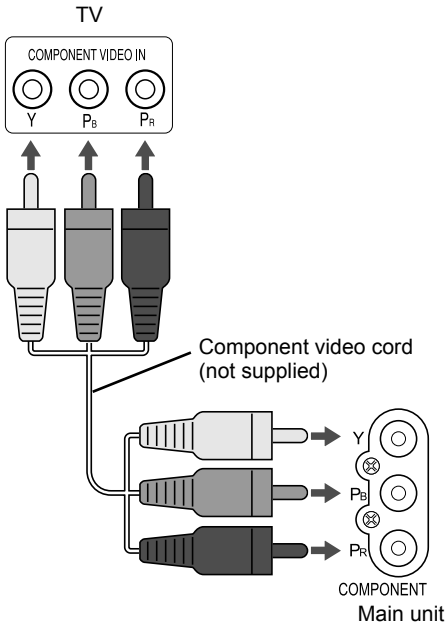
Connecting by using the S-video cord



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.



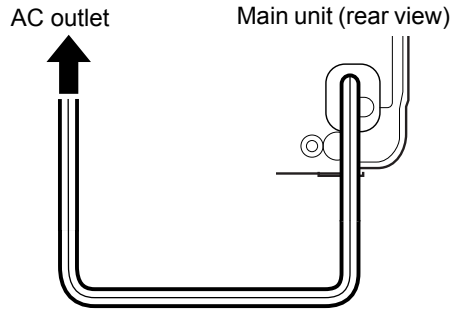
CAUTION

- 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 29), 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.

NOTE

- The preset setting such as preset channels and sound adjustment may be erased in a few days in the following cases:
  - When you disconnect the power plug.
  - When a power failure occurs.

Demonstration display function

When you connect the power plug into the AC outlet, "DEMO START!" appears in the display window and the demonstration display starts.

When you press COLOR /DEMO on the main unit, "DEMO OFF" appears in the display window and the demonstration display is canceled.
Turning on the main unit automatically cancels the demonstration display.

Resuming the demonstration display

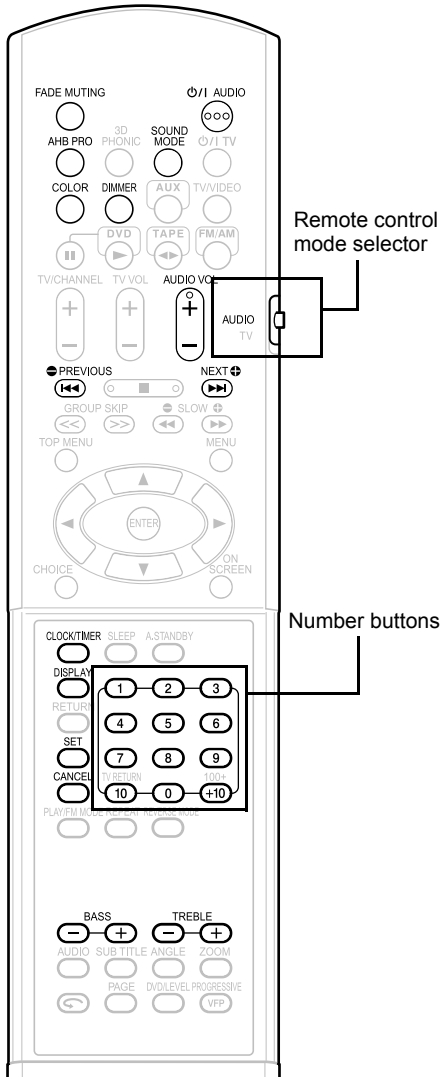
With the power turned off, press COLOR /DEMO on the main unit.

Hiding the demonstration display

With the power turned off, hold down COLOR /DEMO until "DEMO CLEAR" appears.
Disconnecting and then reconnecting the power plug does not start the demonstration display.
To activate the demonstration display again, hold down COLOR /DEMO until "DEMO START!" appears.

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. You can use either button in this case.



CAUTION

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

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.

1 Press CLOCK/TIMER.

0:00

2 Set the hour.

PREVIOUS (Back) NEXT (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 below.

Using the number buttons

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

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

10:00

3 Press SET.

10:00

- To return to step 2, press CANCEL.

4 Set the minute in the same manner as steps 2 and 3.

10:10

Adjusting the clock

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

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 cut has occurred.

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. The function assigned to the button starts working at the same time.

Remote control: DVD TAPE FM/AM AUX

Main unit: DVD ⏏ TAPE FM/AM AUX DVD ⏏

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 + − **.**

- You can also adjust the volume by turning the VOLUME control on the main unit.

NOTE

- You can adjust the volume within the range of 0 to 40.

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 toggles 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".

Adjusting the Sound Quality

Selecting the sound mode

Press SOUND MODE **.**

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

ROCK : For emphasizing treble and bass sounds.
↓
POP : 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 (initial 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.

Changing the Color Patterns for the Display Window and Disc Tray

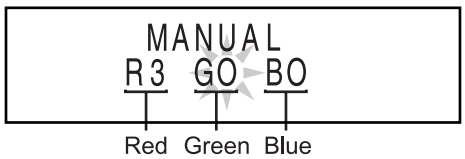
Press COLOR (or COLOR /DEMO on the main unit).

- Each time you press COLOR, the display toggles as follows.

RAINBOW : For a rainbow-like pattern.
↓
FLOWER : For a flower-image pattern.
↓
GRADATION : Gradually changes the color pattern in a cycle of approximately 20 seconds.
↓
OCEAN : For an ocean-image pattern.
↓
FANTASY : For a fantasy pattern.
↓
MANUAL (R3 GO BO) : For the color of your choice. (The setting shown on the left is initial setting.)

Setting your favorite color for the display window and disc tray

1. **Press COLOR repeatedly to display "MANUAL".**
2. **Press PREVIOUS or NEXT to select a component color.**



- Numerical value of the selected component color flashes.

3. **Press AUDIO VOL (+/−) to adjust the intensity of the component color.**
   - You can also adjust the color intensity by turning the VOLUME control on the main unit.
   - You can adjust the color intensity within the range of "0" to "3".
     You cannot set all three component colors (red, green, and blue) to "0" at the same time.

NOTE

- After you have adjusted each component color, the display returns to the sound source display in approximately 8 seconds.
- You cannot set different colors for the display window and disc tray.
- When you operate a button on the main unit or remote control, the display window and disc tray light in pale blue for approximately 2 seconds.
- When recording finishes, the color of the display window and disc tray switches to the color set in "MANUAL" to inform you that recording has finished. (With an item other than "MANUAL" selected)
  When you operate the main unit after recording finishes, the color pattern for the display window and disc tray returns to the selected pattern.

Changing the brightness of the display window and disc tray (DIMMER)

Press DIMMER.

- Each time you press DIMMER, the display toggles 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 (initial setting).

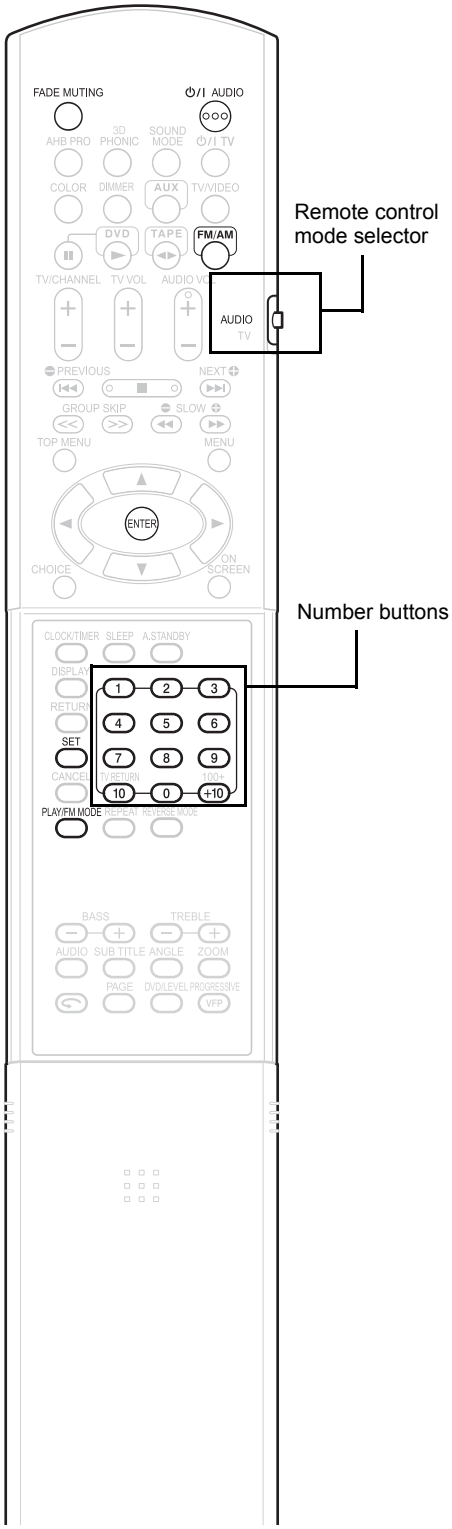
NOTE

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

Listening to Radio Broadcasts

Used frequently

This product can receive FM and AM radio broadcasts.



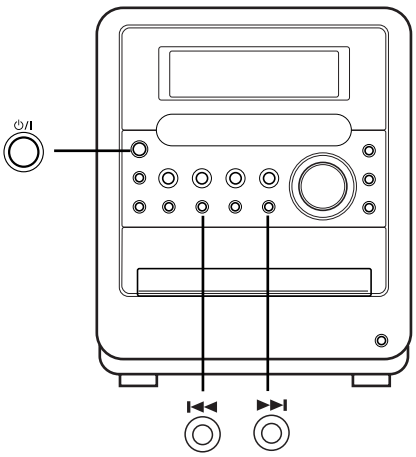
CAUTION

- 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" 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" appears in the display window.

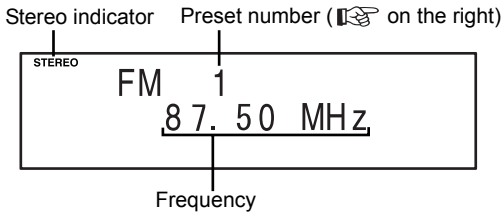
NOTE

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

Selecting a Radio Station

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

Example: Display 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.

NOTE

- 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 or select another FM radio station.
- This product is not compatible with AM stereo broadcasts.

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 - TV RETURN 10 or 100+ +10) to select the preset number you want to use.

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

4 While the selected number is flashing, press SET.

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

NOTE

- 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).

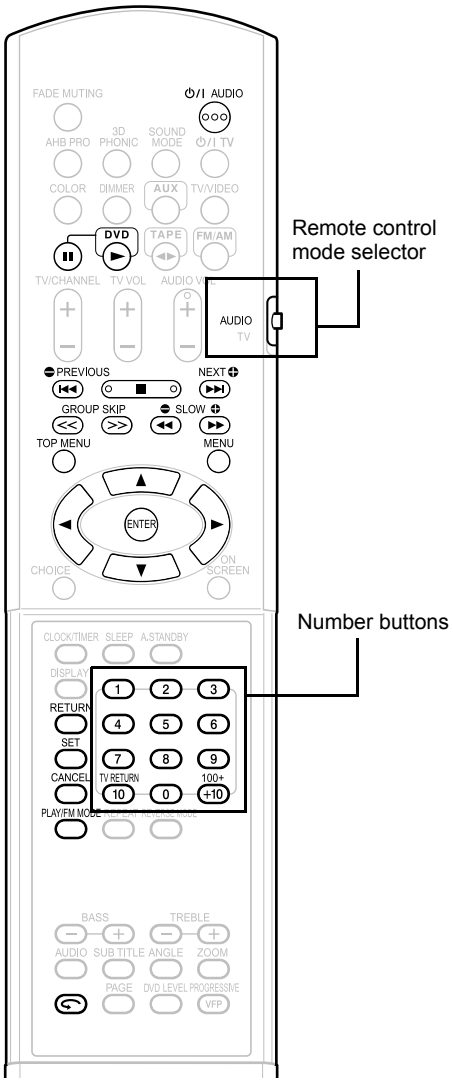
Basic Operations of the DVD Player

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 | VCD | SVCD | C D | MP3 WMA | JPEG

- The illustrations and TV screens may be different between the actual case and the description.
- "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

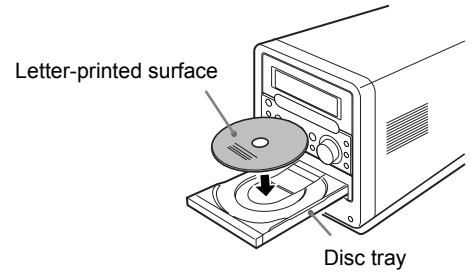
DVD VIDEO | DVD AUDIO | VCD | SVCD | C D

(Refer to page 36 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.



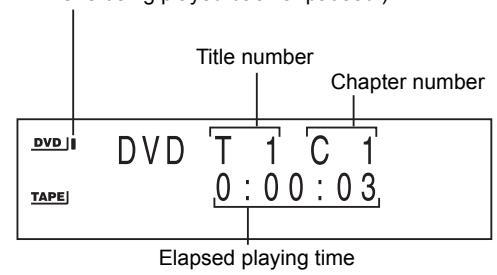
- When you want to listen to an 8 cm disc, place it on the inner hollow of the disc tray.

3 Press DVD ▶.

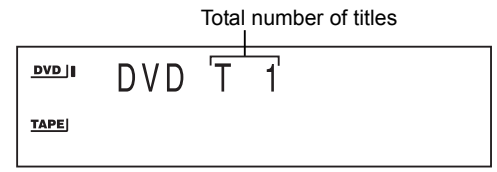
■Display for DVD VIDEO

Display while a DVD VIDEO is being played back:

DVD indicator
(The DVD indicator lights up while the DVD VIDEO is stopped. The DVD indicator flashes while the DVD VIDEO is being played back or paused.)



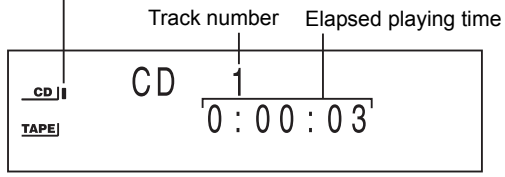
Display while the DVD VIDEO is stopped:



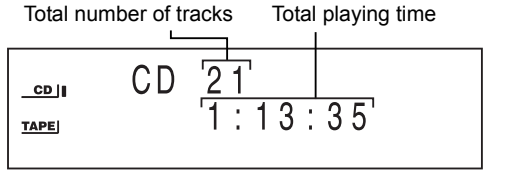
■Display for CD

Display while a CD is being played back:

CD indicator
(The CD indicator lights up while the CD is stopped. The CD indicator flashes while the CD is being played back or paused.)



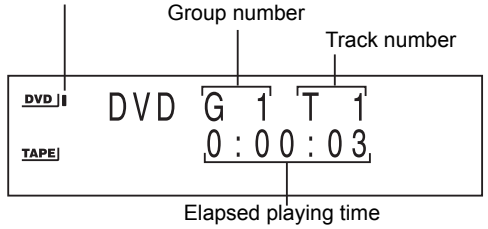
Display while the CD is stopped:



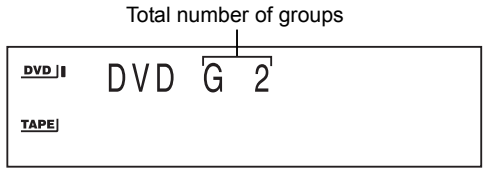
■Display for DVD AUDIO

Display while a DVD AUDIO is being played back:

DVD indicator
(The DVD indicator lights up while the DVD AUDIO is stopped. The DVD indicator flashes while the DVD AUDIO is being played back or paused.)



Display while the DVD AUDIO is stopped:

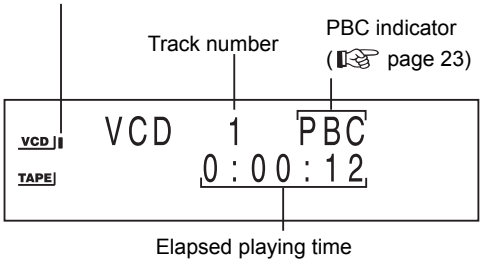


• "G1" and "T1" will appear after the total number of groups is displayed.

■Display for VCD/SVCD

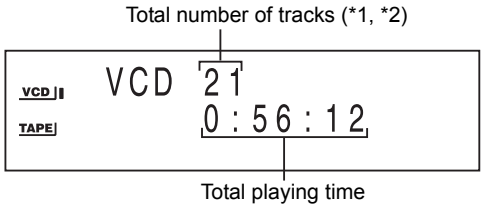
Display while a VCD/SVCD is being played back:

VCD indicator
(The VCD indicator lights up while the VCD/SVCD is stopped. The VCD indicator flashes while the VCD/SVCD is being played back or paused.)



• PBC indicator is displayed while PBC is activated.

Display while the VCD/SVCD is stopped:



*1 "1" will appear after the total number of tracks is displayed.
*2 "PBC" will appear when the disc is PBC-compatible.

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.

(Continued on next page)

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 21)

: Pause (☞ page 24)

: Fast reverse/Fast forward search (☞ page 24)

: Slow motion playback (reverse/forward directions)(☞ page 25)

: Containing multi-angle views (☞ page 27)

: Containing multi-audio (☞ page 26)

: Containing multi-subtitle (☞ page 27)

: 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, press RETURN to return to the higher menu group.

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

DVD VIDEO

■While a disc is being played back

Press .

NOTE
- This operation may not be carried out for some discs.
- You cannot return to the previous title.

Stopping Playback

Used frequently

DVD VIDEO DVD AUDIO VCD SVCD CD MP3 WMA JPEG

■While a disc is being played back

Press ■.

Resuming Playback (RESUME)

DVD VIDEO DVD AUDIO VCD SVCD

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 39).**

Pausing Playback

DVD VIDEO DVD AUDIO 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 on the main unit during JPEG disc slide-show.

Advancing Picture Frame by Frame

DVD VIDEO SVCD VCD DVD AUDIO

(only for moving image)

■While a disc is paused

Press ⏸.

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

Fast Reverse/Fast Forward Search

Used frequently

DVD VIDEO DVD AUDIO VCD SVCD CD

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

For the locations of remote control buttons, refer to page 21.

Slow Motion Playback

DVD VIDEO VCD SVCD DVD AUDIO (only for moving image)

■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 or SVCD, 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 VCD SVCD CD MP3 WMA JPEG

■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 ≪ or GROUP SKIP ≫ to select a title or group.

NOTE

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

Skipping to the Beginning of a Track with the Number Buttons

DVD VIDEO DVD AUDIO VCD SVCD CD MP3 WMA JPEG

■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 VCD or SVCD while the disc is stopped or played back with PBC off.
- You can operate a DVD AUDIO, CD, MP3, WMA, or JPEG while the disc is either played back or stopped.
- This operation may not be carried out for some discs.

Selecting a Track from the Menu Screen

DVD VIDEO DVD AUDIO VCD SVCD

■While a disc is stopped or being played back*

1 Set the remote control mode selector to AUDIO.

2 Press MENU ○ or TOP MENU ○.

- A menu screen of the disc appears.
- Only TOP MENU ○ can be used for DVD AUDIOs.

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

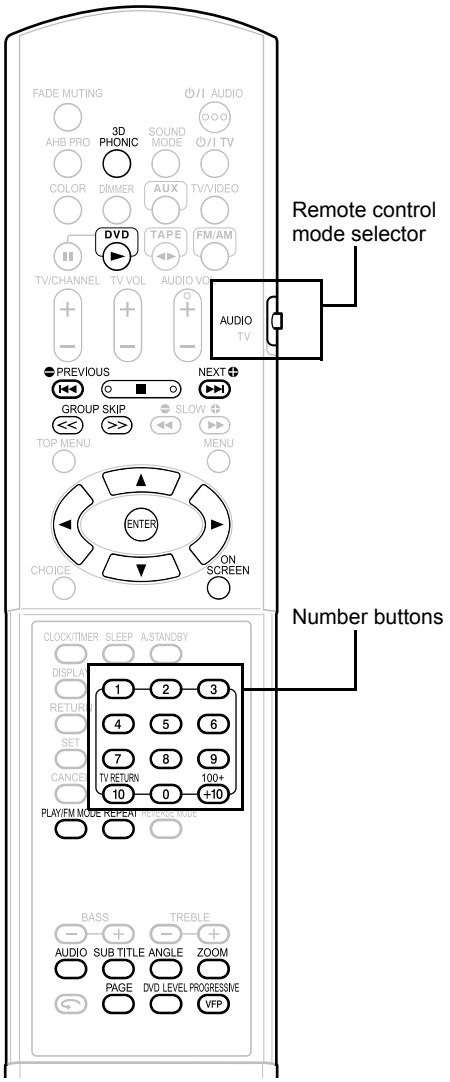
- Refer to "Using the number buttons" (☞ page 16).
- If there are two or more pages of menu screen, press PREVIOUS ⏮ or NEXT ⏭ to change the pages (only for a VCD or SVCD).

4 Press ENTER.

NOTE

* You can operate a VCD or SVCD while PBC is set to off.
- 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.

Convenient Functions of the DVD Player



NOTE

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

Selecting the Audio

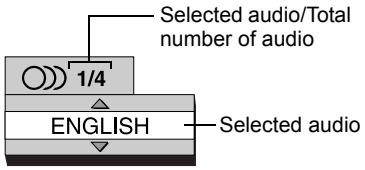
Used frequently

DVD VIDEO DVD AUDIO VCD SVCD

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

1 Press AUDIO.

Example: TV screen



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

2 Wait for a few seconds or press ENTER.

NOTE

- You can also operate this function by using the menu bar (☞ page 34).
- 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.

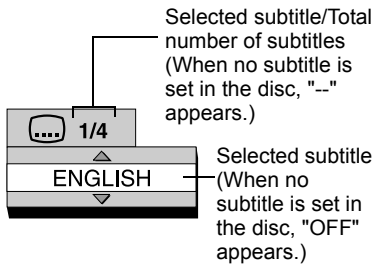
Selecting the Subtitle

DVD VIDEO SVCD DVD AUDIO
(only for moving image)

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

1 Press SUB TITLE.

Example: TV screen



2 Press ▲ ▼ to select a subtitle.

3 Wait for a few seconds or press ENTER.

NOTE

- You can also operate this function by using the menu bar (☞ page 34).
- 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".

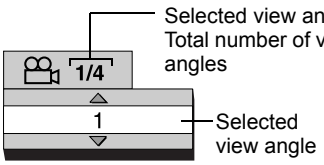
Selecting a View Angle

DVD VIDEO DVD AUDIO
(only for moving image)

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

1 Press ANGLE.

Example: TV screen



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

2 Wait for a few seconds or press ENTER.

NOTE

- You can also operate this function by using the menu bar (☞ page 34).

Magnifying the Picture (ZOOM)

DVD VIDEO VCD SVCD DVD AUDIO JPEG
(only for moving image)

■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.

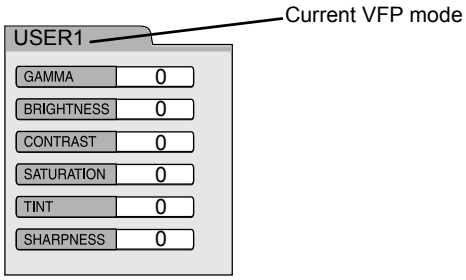
Adjusting the Picture Quality (VFP)

DVD VIDEO DVD AUDIO VCD SVCD JPEG

■While a disc is played back or paused

1 Press (VFP).

Example: 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:

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 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: TV screen

• Each time you press 3D PHONIC, the display toggles 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 (initial 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".
- You cannot operate some types of DVD AUDIO 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 toggles as follows in the display window.

NORMAL : Sound level recorded in the DVD.
↓
MIDDLE : Enhances the sound level (initial 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 recording sound.

Enjoying Better Pictures (PROGRESSIVE)

In the progressive mode, you can enjoy better pictures.

CAUTION

- In order to enjoy pictures in the progressive mode, the following requirements should be met.
  - There must be component video input terminals on the TV set connected to the main unit.
  - The main unit and the TV set must be connected using a component video cord (☞ page 15).

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

■While the disc is played back or paused

Hold down PROGRESSIVE VFP.

- Each time you press PROGRESSIVE VFP, the display toggles as follows.

Interlace mode (initial setting)

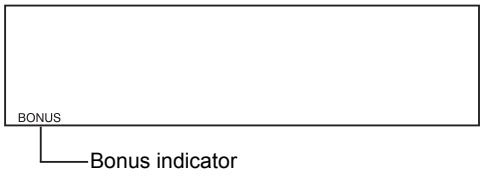
↕

Progressive mode

Playing Back the Bonus Group

DVD AUDIO

There are some DVD AUDIO discs with a special group, called "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 a pin code (4 digits).

- The method of getting a pin code is different depending on the disc.

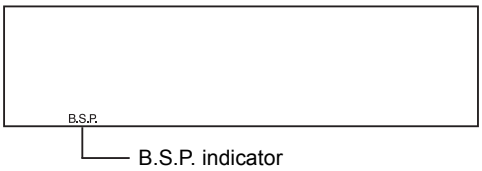
4 Press ENTER.

- 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.



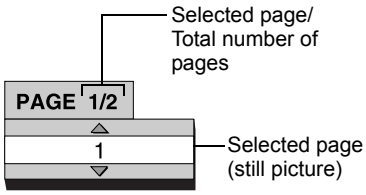
- This operation can be carried out when "B.S.P." is lit in the display window on the main unit.

■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 ▲ ▼.

Example: TV screen



2 Wait for a few seconds or press ENTER.

NOTE

- You can operate this function on the menu bar (☞ page 34).

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

DVD VIDEO DVD AUDIO VCD SVCD CD MP3 WMA

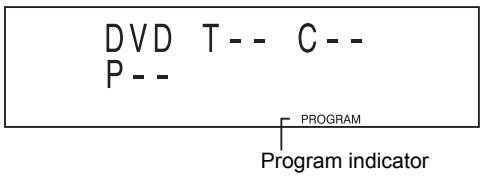
You can program a maximum of 99 chapters or tracks. You can program the same chapter or track more than once.

■While a disc is stopped

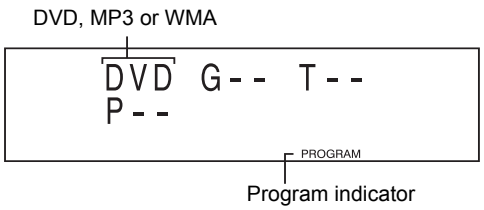
1 Set the remote control mode selector to AUDIO.

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

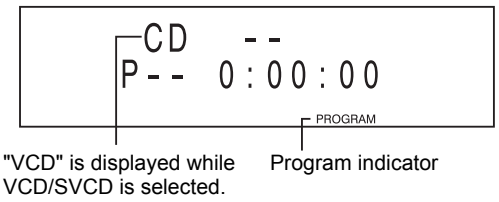
■Display for DVD VIDEO



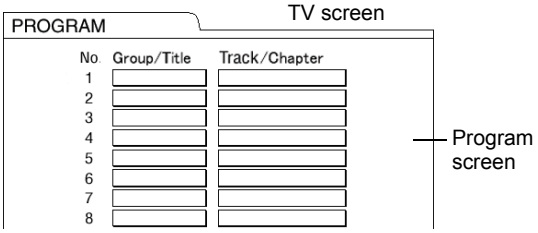
■Display for DVD AUDIO/MP3/WMA



■Display for CD/VCD/SVCD



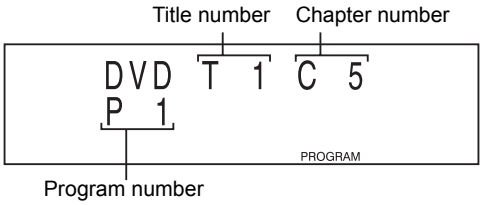
Example: For DVD VIDEO



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

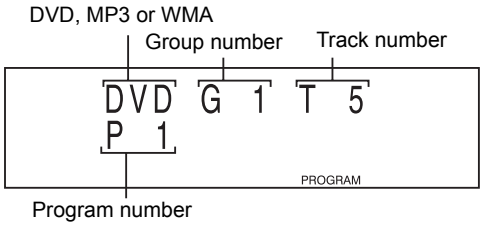
■Display for DVD VIDEO

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



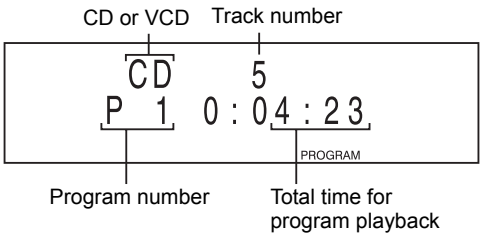
■Display for DVD AUDIO/MP3/WMA

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

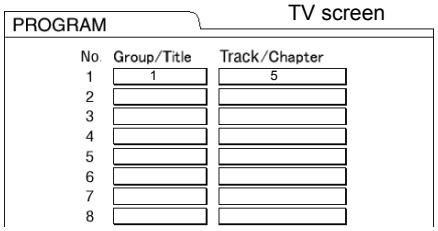


■Display for CD/VCD/SVCD

- Select a track number.



Example: For DVD VIDEO



- 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 30.
- When you try to enter more than 99 chapters or tracks, "MEMORY FULL" appears.

4 Press DVD.

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 indicator

- "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.

For the locations of remote control buttons, refer to page 26.

Repeat Playback

DVD VIDEO DVD AUDIO VCD SVCD CD

Refer to page 37 for repeat playback of MP3/WMA and JPEG files.

■While a disc is being played back

Press REPEAT .

- Each time you press REPEAT, the repeat type will be changed.

For DVD VIDEO

Repeat types	Display on the TV screen	Display in the display window on the main unit
Repeats the current chapter	CHAP*	REPEAT CHAPTER*
Repeats the current title	TITLE	REPEAT TITLE ALL
Cancels repeat	OFF	REPEAT OFF

For DVD AUDIO

Repeat types	Display on the TV screen	Display in the display window on the main unit
Repeats the current track	TRACK*	REPEAT TRACK*
Repeats the current group	GROUP	REPEAT GROUP GROUP
Cancels repeat	OFF	REPEAT OFF

For CD/VCD/SVCD

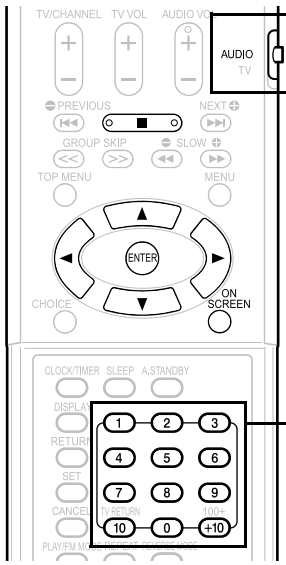
Repeat types	Display on the TV screen	Display in the display window on the main unit
Repeats the current track	TRACK*	REPEAT TRACK*
Repeats all tracks	ALL	REPEAT ALL ALL
Cancels repeat	OFF	REPEAT OFF

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

NOTE

- For a VCD and SVCD, the operation can be carried out during playback without the PBC function (☞ page 23).
- You can also operate this function on the menu bar (☞ page 34).
- For details on A-B repeat (repeat playback of a designated part), refer to page 35.

Status Bar and Menu Bar



DVD VIDEO DVD AUDIO VCD SVCD CD

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

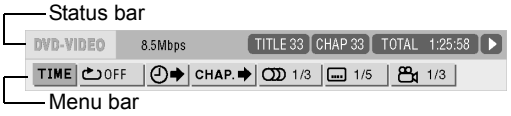
CAUTION

- 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.

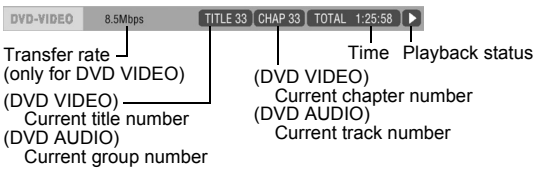
Function list

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

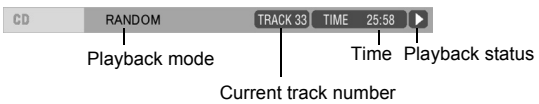
TIME Time display selection	Changes time information displayed in the display window on the main unit and the status bar. Each time ENTER is pressed, the display will be changed. **DVD VIDEO/DVD AUDIO** TOTAL : Elapsed playing time of current title/group T.REM : Remaining time of current title/group TIME : Elapsed playing time of current chapter/track REM : Remaining time of current chapter/track **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 33
Time search	page 35
CHAP. / TRACK Chapter search/ Track search	**DVD VIDEO/DVD AUDIO** 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/VCD/SVCD** page 26
Subtitle	**DVD VIDEO/DVD AUDIO/SVCD** page 27
1/3 View angle	**DVD VIDEO/DVD AUDIO** page 27
PAGE -/- Page switch	**DVD AUDIO** Switches the still pictures (B.S.P.) recorded on a DVD AUDIO disc. page 30

Information displayed on the status bar

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



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



NOTE

- The playback status mark has the same meaning of the mark on the on-screen guide (page 23).

For the locations of remote control buttons, refer to page 34.

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

DVD VIDEO DVD AUDIO VCD SVCD CD

■While a disc is being played back

1 Press ON SCREEN twice.

• The menu bar (☞ page 34) 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

- You can operate a VCD and SVCD while the disc is played back with PBC off.
- 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 VCD SVCD CD

■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 34).

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.

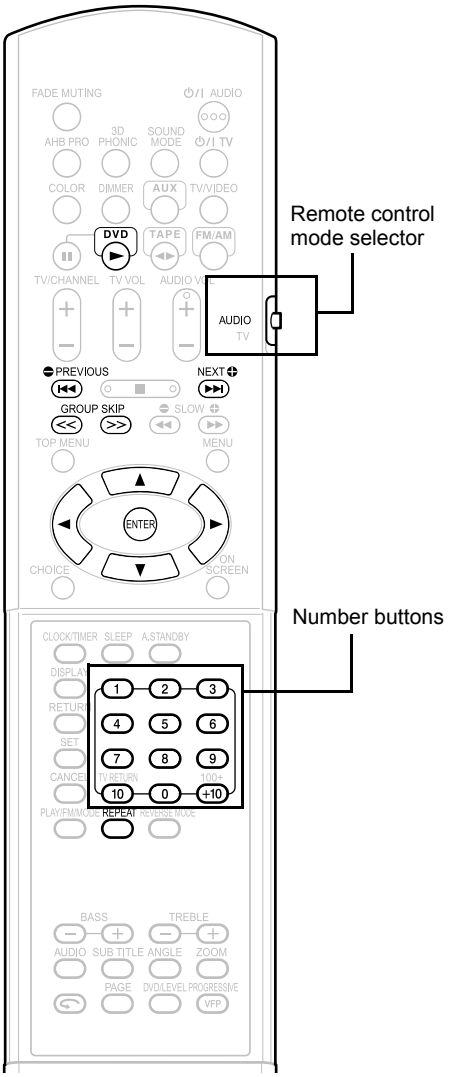
6 Press ENTER.

• To delete the menu bar, press ON SCREEN.

NOTE

- You may not be able to operate this function depending on the disc.
- This function does not work during program playback or random playback.
- For a CD, this operation can always be carried out. For a VCD or SVCD, the operation can be carried out when the disc is stopped or during playback without the PBC function.
- 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

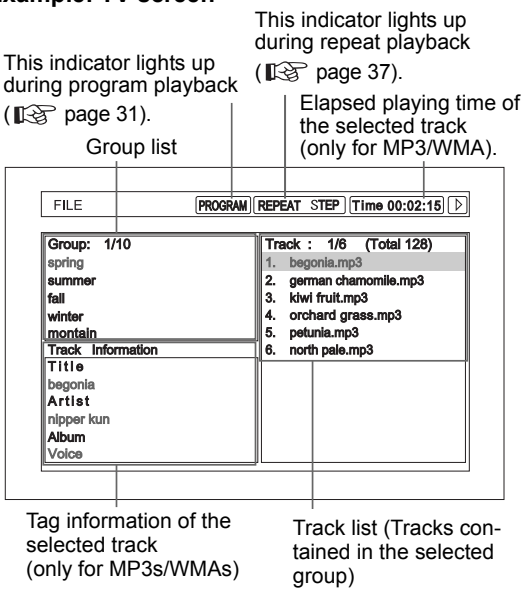
Display of an MP3/WMA disc is described here as an example.
For a JPEG disc, read "track" as "file".

NOTE

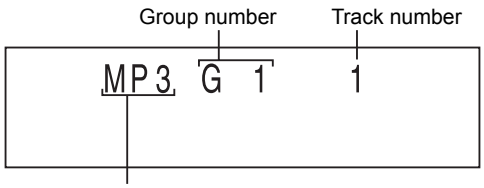
- When playing back a disc containing both MP3/WMA and JPEG files, set one of them to be played (☞ page 38).

1 Insert a disc.

Example: TV screen



Example: Display window



2 Press ▲ ▼ to select a group.

3 Press ► to move to the track list.

- Pressing ◄ returns to the group list.

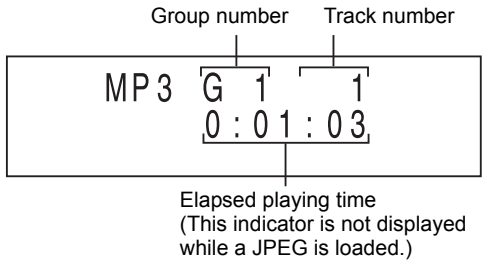
(Continued on next page)

For the locations of remote control buttons, refer to page 36.

4 Press ▲ ▼ to select a track.

5 Press DVD ► or ENTER.

Example: Display 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 ◄◄ and 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.

Repeat Playback

MP3 WMA JPEG

■While a disc is being played back

Press REPEAT.

- Each time you press REPEAT, the repeat type is changed.

Repeat types	Display on the TV screen	Display in the display window on the main unit
Repeats the current track (only for MP3/WMA)	REPEAT TRACK*	REPEAT* TRACK ⊂
Repeats the current group	REPEAT GROUP	REPEAT GROUP ⊂GROUP
Repeats the entire disc	REPEAT ALL	REPEAT ALL ⊂ALL
Cancels repeat playback	No display	REPEAT OFF

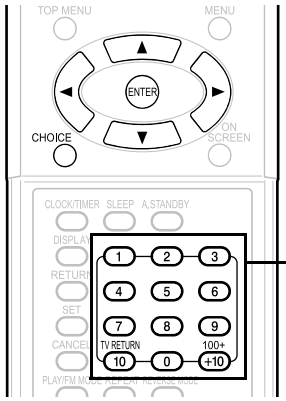
* "STEP" is displayed during program playback and random playback.

NOTE

- The repeat types can also be changed while the disc is stopped.
- The repeat playback is automatically canceled if there is a file that cannot be played back (☞ page 4).

Preferences

DVD VIDEO DVD AUDIO VCD SVCD CD MP3 WMA JPEG



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

CAUTION

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

NOTE

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

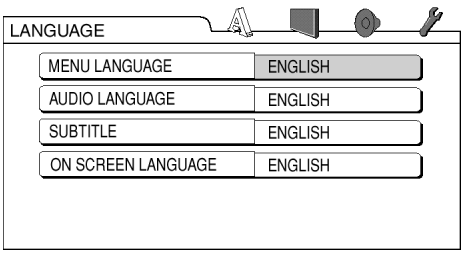
Basic Operations

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 CHOICE.

- "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. **VIDEO:** Select this item when you want to view a normal video. **FILM:** Select this item when you want to view a film or video recorded with the progressive scan method. **AUTO:** The video source type (a video or film) is automatically selected.
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. If you change this setting, open and close the disc tray, or momentarily turn off the main unit. (A disc either with audio files or still picture files can be played back regardless of this setting.)

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	**(page 24)**
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 23)**
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. **DVD2:** Connect to the video-1 input of the TV set. **DVD3:** Connect to the video-2 input of the TV set.
PARENTAL LOCK	**Set the parental lock function to cut off violent scenes or replace the scenes with others. (This is effective only for discs equipped with the parental lock function.)** **COUNTRY CODE (page 40)** Select your country or area. **SET LEVEL:** The restriction is stricter as the number becomes smaller. "NONE" is no restriction. **PASSWORD (essential):** Enter four-digit number as your password using the number buttons (1-9, 0) every time. (Enter "8888" if you forget your password.) The password is required at the time of playback. • If you enter a wrong password three times, "EXIT" will be automatically selected.

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

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

NOTE

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

Country/Area Codes

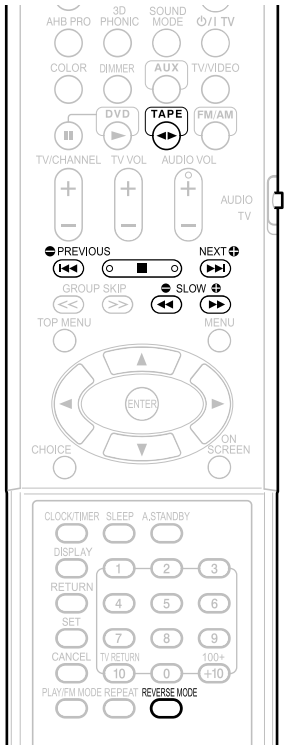
AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
AN	Netherlands Antilles
AO	Angola
AQ	Antarctica
AR	Argentina
AS	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AZ	Azerbaijan
BA	Bosnia and Herzegovina
BB	Barbados
BD	Bangladesh
BE	Belgium
BF	Burkina Faso
BG	Bulgaria
BH	Bahrain
BI	Burundi
BJ	Benin
BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia
BR	Brazil
BS	Bahamas
BT	Bhutan
BV	Bouvet Island
BW	Botswana
BY	Belarus
BZ	Belize
CA	Canada
CC	Cocos (Keeling) Islands
CF	Central African Republic
CG	Congo
CH	Switzerland
CI	Côte d'Ivoire
CK	Cook Islands
CL	Chile
CM	Cameroon
CN	China
CO	Colombia
CR	Costa Rica
CU	Cuba
CV	Cape Verde
CX	Christmas Island
CY	Cyprus
CZ	Czech Republic
DE	Germany
DJ	Djibouti
DK	Denmark
DM	Dominica
DO	Dominican Republic
DZ	Algeria
EC	Ecuador
EE	Estonia
EG	Egypt
EH	Western Sahara
ER	Eritrea
ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands (Malvinas)
FM	Micronesia (Federated States of)
FO	Faroe Islands
FR	France
FX	France, Metropolitan
GA	Gabon
GB	United Kingdom
GD	Grenada
GE	Georgia
GF	French Guiana
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe
GQ	Equatorial Guinea
GR	Greece
GS	South Georgia and the South Sandwich Islands
GT	Guatemala
GU	Guam
GW	Guinea-Bissau
GY	Guyana
HK	Hong Kong
HM	Heard Island and McDonald Islands
HN	Honduras
HR	Croatia
HT	Haiti
HU	Hungary
ID	Indonesia
IE	Ireland
IL	Israel
IN	India
IO	British Indian Ocean Territory
IQ	Iraq
IR	Iran (Islamic Republic of)
IS	Iceland
IT	Italy
JM	Jamaica
JO	Jordan
JP	Japan
KE	Kenya
KG	Kyrgyzstan
KH	Cambodia
KI	Kiribati
KM	Comoros
KN	Saint Kitts and Nevis
KP	Korea, Democratic People's Republic of
KR	Korea, Republic of
KW	Kuwait
KY	Cayman Islands
KZ	Kazakhstan
LA	Lao People's Democratic Republic
LB	Lebanon
LC	Saint Lucia
LI	Liechtenstein
LK	Sri Lanka
LR	Liberia
LS	Lesotho
LT	Lithuania
LU	Luxembourg
LV	Latvia
LY	Libyan Arab Jamahiriya
MA	Morocco
MC	Monaco
MD	Moldova, Republic of
MG	Madagascar
MH	Marshall Islands
ML	Mali
MM	Myanmar
MN	Mongolia
MO	Macau
MP	Northern Mariana Islands
MQ	Martinique
MR	Mauritania
MS	Montserrat
MT	Malta
MU	Mauritius
MV	Maldives
MW	Malawi
MX	Mexico
MY	Malaysia
MZ	Mozambique
NA	Namibia
NC	New Caledonia
NE	Niger
NF	Norfolk Island
NG	Nigeria
NI	Nicaragua
NL	Netherlands
NO	Norway
NP	Nepal
NR	Nauru
NU	Niue
NZ	New Zealand
OM	Oman
PA	Panama
PE	Peru
PF	French Polynesia
PG	Papua New Guinea
PH	Philippines
PK	Pakistan
PL	Poland
PM	Saint Pierre and Miquelon
PN	Pitcairn
PR	Puerto Rico
PT	Portugal
PW	Palau
PY	Paraguay
QA	Qatar
RE	Réunion
RO	Romania
RU	Russian Federation
RW	Rwanda
SA	Saudi Arabia
SB	Solomon Islands
SC	Seychelles
SD	Sudan
SE	Sweden
SG	Singapore
SH	Saint Helena
SI	Slovenia
SJ	Svalbard and Jan Mayen
SK	Slovakia
SL	Sierra Leone
SM	San Marino
SN	Senegal
SO	Somalia
SR	Suriname
ST	Sao Tome and Principe
SV	El Salvador
SY	Syrian Arab Republic
SZ	Swaziland
TC	Turks and Caicos Islands
TD	Chad
TF	French Southern Territories
TG	Togo
TH	Thailand
TJ	Tajikistan
TK	Tokelau
TM	Turkmenistan
TN	Tunisia
TO	Tonga
TP	East Timor
TR	Turkey
TT	Trinidad and Tobago
TV	Tuvalu
TW	Taiwan
TZ	Tanzania, United Republic of
UA	Ukraine
UG	Uganda
UM	United States Minor Outlying Islands
US	United States
UY	Uruguay
UZ	Uzbekistan
VA	Vatican City State (Holy See)
VC	Saint Vincent and the Grenadines
VE	Venezuela
VG	Virgin Islands (British)
VI	Virgin Islands (U.S.)
VN	Viet Nam
VU	Vanuatu
WF	Wallis and Futuna Islands
WS	Samoa
YE	Yemen
YT	Mayotte
YU	Yugoslavia
ZA	South Africa
ZM	Zambia
ZR	Zaire
ZW	Zimbabwe

Language Codes

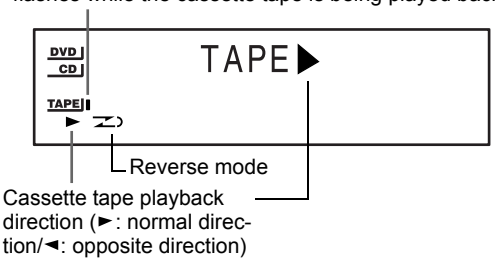
Code	Language	Code	Language
AA	Afar	MK	Macedonian
AB	Abkhazian	ML	Malayalam
AF	Afrikaans	MN	Mongolian
AM	Ameharic	MO	Moldavian
AR	Arabic	MR	Marathi
AS	Assamese	MS	Malay (MAY)
AY	Aymara	MT	Maltese
AZ	Azerbaijani	MY	Burmese
BA	Bashkir	NA	Nauru
BE	Byelorussian	NE	Nepali
BG	Bulgarian	NL	Dutch
BH	Bihari	NO	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



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.)

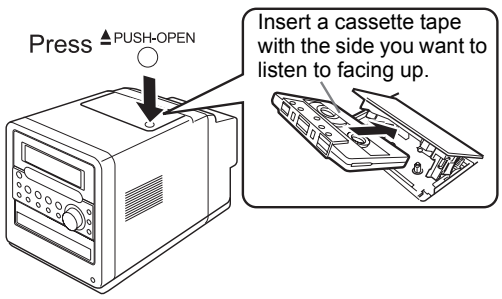


CAUTION

- Before using a cassette tape, wind up any slack in the cassette tape. (☞ 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.

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

1 Insert a cassette tape.



2 Press REVERSE MODE repeatedly to select the reverse mode.

: For one return playback of both sides.

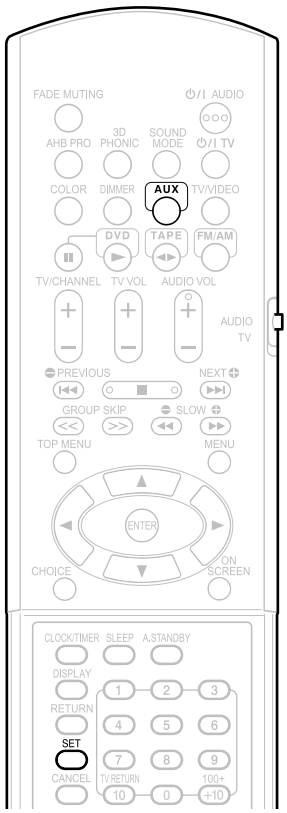
: For repeated playback of both sides (Playback continues until playback is stopped.)

: 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

Adjusting the sound input level of the AUX

1 Press AUX.

2 Hold down SET until the input level appears.

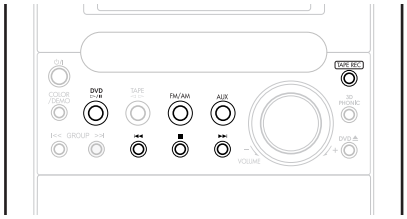
- Each time you hold down SET, the display toggles as follows.

LEVEL 1 — For ordinary use. (initial setting)

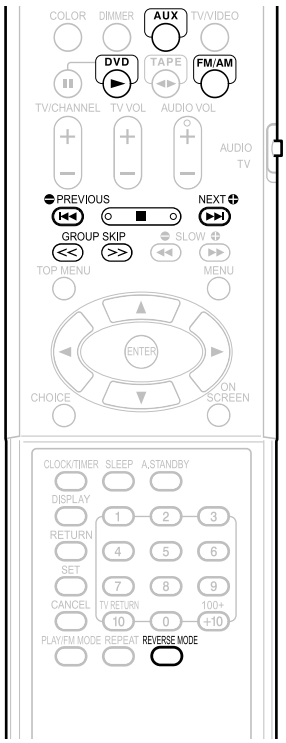
LEVEL 2 — For increasing the level.

Recording Sound to Cassette Tapes Used frequently

Main unit



Remote control



NOTE

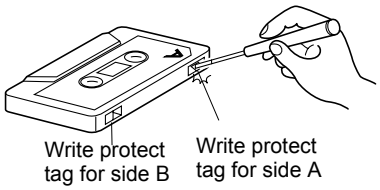
- The sound input level during recording is automatically adjusted.
- When you record tracks from a disc, a 4-second blank is inserted between tracks in the recording. You can record tracks with no blank time.
  (☞ page 45)

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.

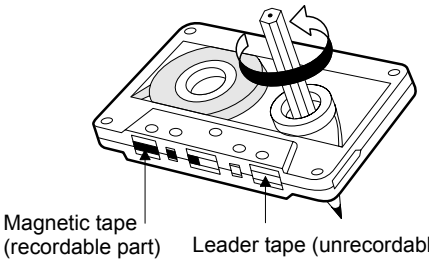
Preventing recorded sound from being erased

- 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 toggles as follows.

: For one-way recording on either side.

: For one return recording on both sides.

: Pressing TAPE REC automatically starts one return recording on both sides.

- 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.

Sound source	Operation
Disc	Press DVD, and then press ■. (The disc is stopped.)
Radio broadcast	Select the radio station whose broadcast you want to record (☞ page 19).
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 pattern of the display window and disc tray switches to the color pattern set in "MANUAL" to inform you that recording has finished (☞ page 18).

Quitting Recording

Press ■.

Recording Only One Track from a Disc

(Excluding DVD VIDEOs)

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.

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

(For a DVD VIDEO: while the disc is paused)

■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 31).

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.

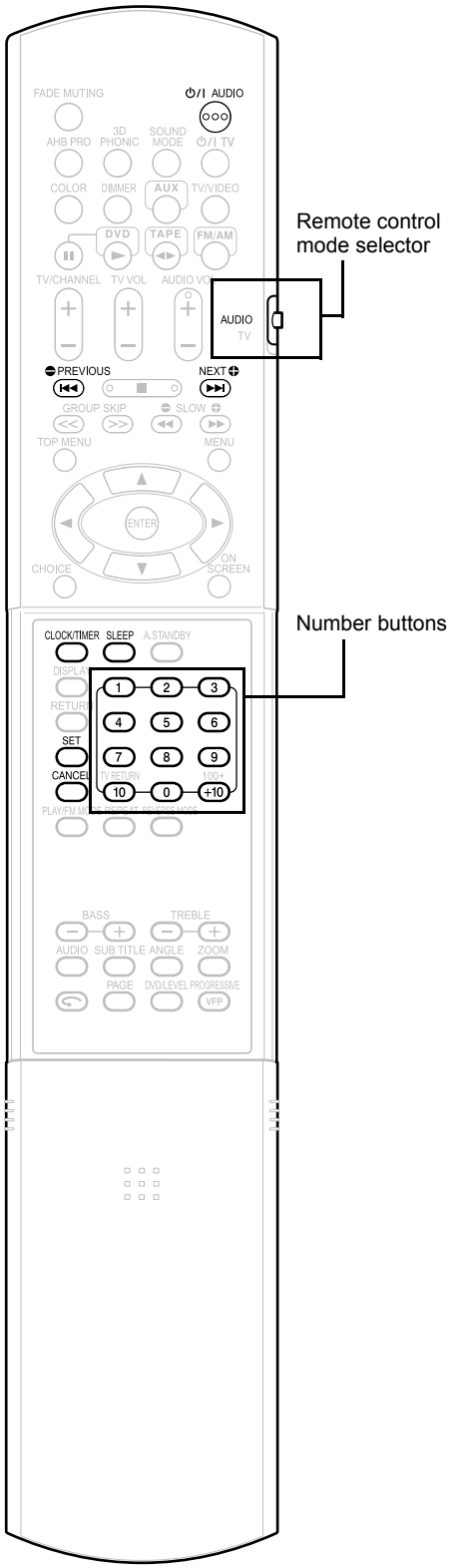
- Do not play back any tracks on the connected equipment.

NOTE

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

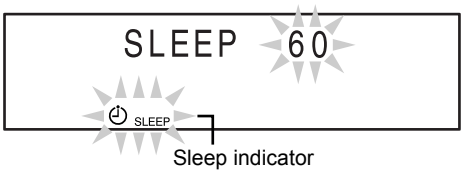
When the specified time passes, the main unit automatically turns off.

Press SLEEP.

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

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

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.

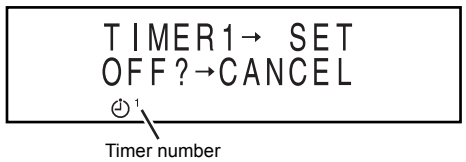
1 Prepare the sound source.

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".

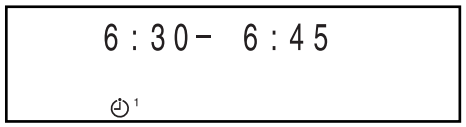
Example: When "TIMER1" is selected



4 Press SET.

5 Press PREVIOUS, NEXT or 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 clock, refer to "Setting the Clock" (☞ page 16).

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

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

ONCE : The recording timer works once.
EVERYDAY : The recording timer works every day.

7 Press SET.

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

- "REC" stands for "Recording".

9 Press SET.

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

11 Press SET.

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

12 When the main unit is on, 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 then press SET repeatedly until all of the setting procedure finishes. Then turn off the main unit.

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 cut, the recording timer settings may be lost. If the settings are lost, set the clock and recording timer again.

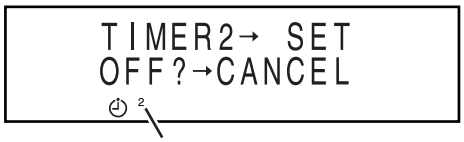
Playback Timer

1 Prepare the sound source you want to play back.

Disc	Make sure that a disc is loaded. (☞ page 21)
Cassette tape	Insert a cassette tape. (☞ page 42)
Radio	Preset the radio station whose broadcast you want to listen to. (☞ page 20)
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

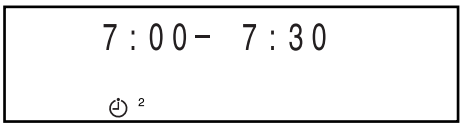


Timer number

3 Press SET.

4 Press PREVIOUS, NEXT or 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 "Setting the Clock" (☞ page 16).

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

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

ONCE : The playback timer works once.
EVERYDAY : The playback timer works every day.

6 Press SET.

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

(Continued on next page)

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

8 Press SET.

9 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 or random playback of a disc.

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

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

- (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 or DVD AUDIO 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).

10 Press SET.

11 Press PREVIOUS or NEXT to adjust the playback volume.

12 Press SET.

- The settings appear in the display window.

13 When the main unit is turned on, press ⏻/I AUDIO to turn off the main unit.

- The playback 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 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.

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.

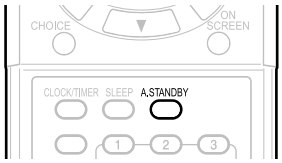
Activating the playback timer again

In step 2 on page 48, select the timer number you want to activate, and then press SET repeatedly until all of the setting procedure finishes. Then turn off the main unit.

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 cut, 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

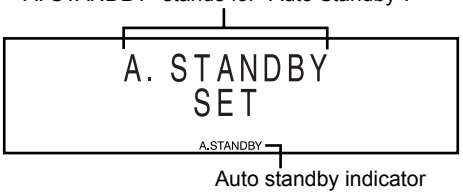


If no sound is produced for 3 minutes when the disc or cassette tape is selected as a sound source, the main unit automatically turns off.

■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.

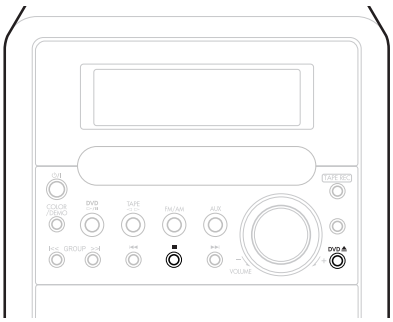
Canceling auto standby

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.

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

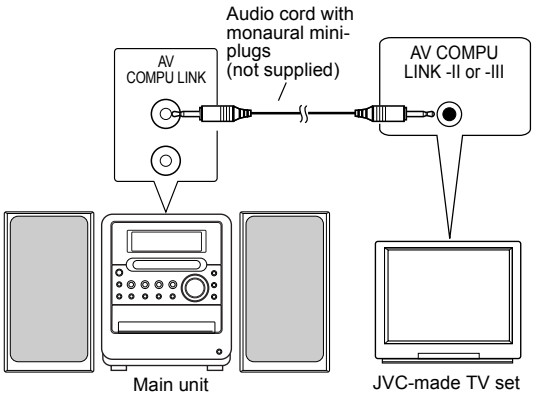
Carry out the operation explained above once again.

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 39) 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.

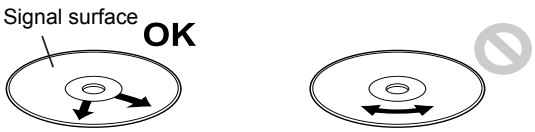
When you turn off the main unit, power to the TV is not turned off.

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



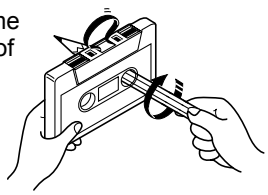
Wipe a disc from the center outward with a soft cloth.

Scratches concentrated on a certain part cause sound dropout.

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

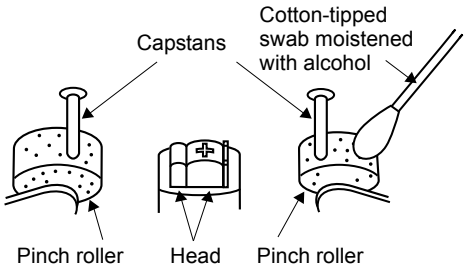
Handling cassette tapes

- 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.	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.	21
	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, 12
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
You cannot set the timer.	You did not set the clock.	Set the clock.	16
The timer does not work.	The main unit is turned on.	After setting the timer, turn off the main unit.	47, 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
When you turn on the main unit, a noise comes out from the rear of the main unit.	The internal cooling fan produces the 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-UXQD9S)

Amplifier

Output power	20 W + 20 W at 4 Ω (10% THD)
Input terminals	
<Analog>	AUX×1, 500 mV/47 kΩ:LEVEL1 250 mV/47 kΩ:LEVEL2
Output terminals	
<Analog>	Speaker×1, 20 W/4 Ω Impedance 4 Ω - 16 Ω Headphone (×1), 25 mW/32 Ω Impedance 16 Ω - 1 kΩ
<Digital>	DVD/CD optical input × 1 -23 dBm to -15 dBm (Optical square terminal)
<Other>	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)

DVD player

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

Cassette deck

Frequency response	
Normal (type I)	60 Hz - 14 000 Hz
Wow and flutter	0.15% (WRMS)

General

Power requirement	AC 240 V~, 50/60 Hz
Power consumption	70 W (at operation) 1.3 W (on standby)
Dimensions	165 mm (W) × 200 mm (H) × 355 mm (D)
Mass (approx.)	4.6 kg

■Speaker (SP-UXQD9S)

System	3-way bass reflex type, Magnetically shielded type
Speakers	Woofer: 10 cm × 1 Midrange: 4 cm × 1 Tweeter: 1.5 cm × 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) × 204.5 mm (D)
Mass (approx.)	2.2 kg (1 unit)

■Micro component system (UX-QD9S)

General

Dimensions	445 mm (W) × 231 mm (H) × 355 mm (D)
Mass (approx.)	9.0 kg

- U.S. and foreign patents licensed from Dolby Laboratories.

UX-QD9S MICRO COMPONENT SYSTEM

JVC

EN, CS

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