JVC

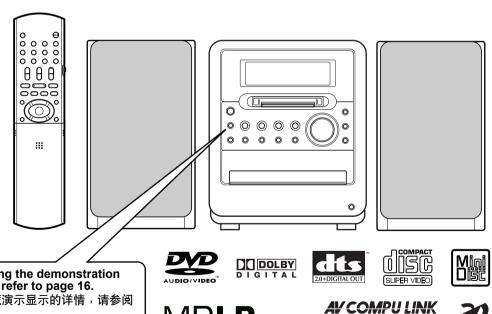
MICRO COMPONENT MD SYSTEM MD 微型组合音响

UX-QD7M

Consists of CA-UXQD7M and SP-UXQD6M 由 CA-UXQD7M 和 SP-UXQD6M 组成

UX-QD7W

Consists of CA-UXQD7W and SP-UXQD6W 由 CA-UXQD7W 和 SP-UXQD6W 组成



For hiding the demonstration display, refer to page 16. 有关隐藏演示显示的详情,请参阅 第16页。

DLP Digital Direct Progressive Scan



INSTRUCTIONS

使用说明书

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

CAUTION

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

- 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 — (b/l button!

Disconnect the mains plug to shut the power off

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

The power can be remote controlled.

注意 - ひ/ 开关!

想要完全关闭电源,须将电源插头从插座上拔下。 无论 💍 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
- 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.

- 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。

BEAM.

CAUTION: Visible and invisible **ADVARSEL**: Synlig og usynlig laser radiation when open and laserstråling når maskinen er AVOID DIRECT EXPOSURE TO Undgå direkte eksponering til stråling.

VARNING: Synlig och urkopplad. Betrakta strålen.

VARO: Avattaessa ja suojalukitus osynlig laserstrålning när ohitettuna tai viallisena olet alttiina interlock failed or defeated. Åben eller interlocken fejler den öppnas och spärren är näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi. (f)

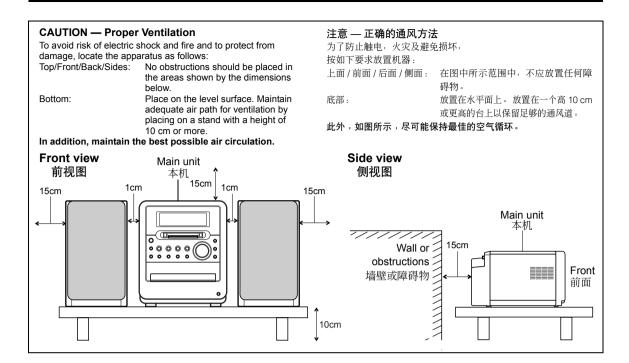


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Used frequently marks refer to operation used frequently. You can quickly learn the general usage of this product by reading those parts only.

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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.

^{• &}quot;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-FXTRA CD-G CD TEXT

Discs you can play:

Discs you can play.			
Disc Type	Mark (Logo)	Video Format	Region Code Number*
DVD VIDEO	VIDEO TM VIDEO	PAL/ NTSC	3/ALL
DVD AUDIO	AUDIO/VIDEO AUDIO	1	1
VCD	COMPACT VIDEO CD	PAL/ NTSC	1
SVCD	COMPACT VIDEO VIDEO SUPER VIDEO CD	PAL/ NTSC	1
CD	COMPACT DIGITAL AUDIO	ı	
CD-R	COMPACT DIGITAL AUDIO Recordable		1
CD-RW	COMPACT 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.

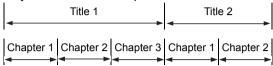
Notes on MP3/WMA/JPEG discs and files

- 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

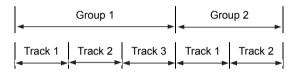
DVD VIDEO

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 (Fig. page 31).



VCD/SVCD/CD

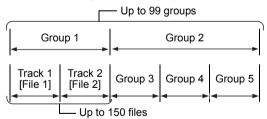
VCD, SVCD and CD consist of "tracks". In general, each track has its own track number. (On some discs, each track may also be further divided by indexes.)



MP3/WMA [JPEG] discs

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

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



This product can recognize up to 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.

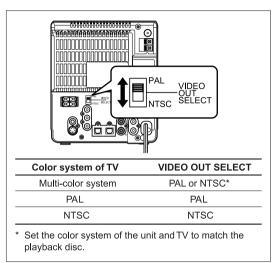
 If there is any type of files other than MP3/WMA [JPEG] files in a disc, those tracks [files] are also counted in the total file number.

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.



• 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 page 39).

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.

- 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

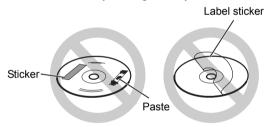
- Select a place which is level, dry and neither too hot nor too cold: between 5°C and 35°C.
- Leave sufficient distance between the system and the TV.
- Do not use the system in a place subject to vibration.

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.

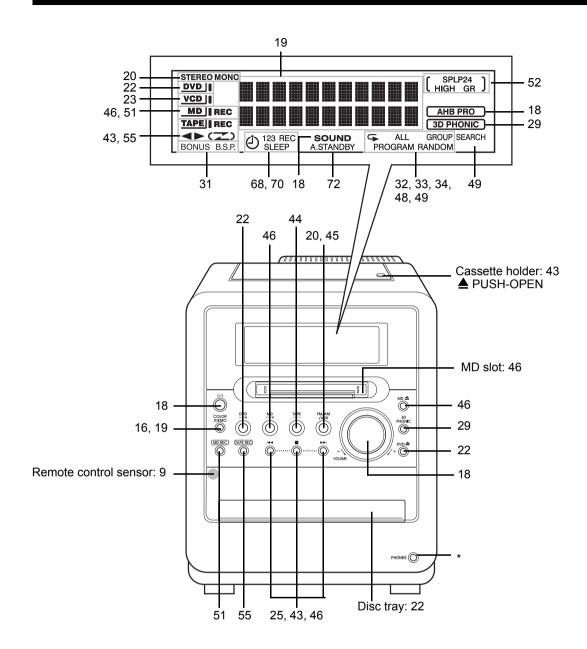
Supplied Accessories

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

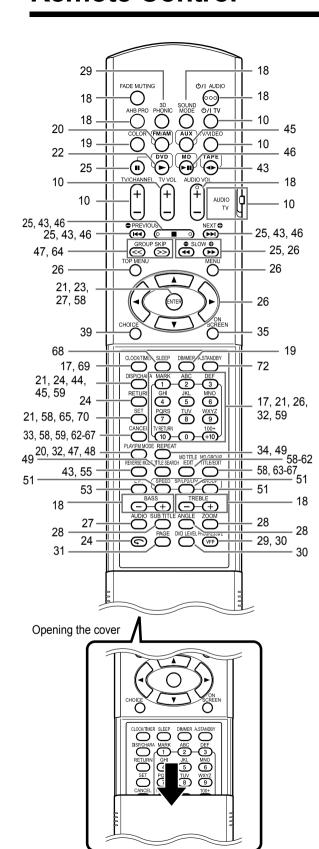
The number in parentheses is the quantity of the pieces supplied. If anything is missing, contact your dealer immediately.

Remote control (1) Batteries (2) FM antenna (1) AM loop antenna (1) Video cord (1)

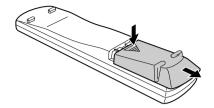
[•] This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation,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

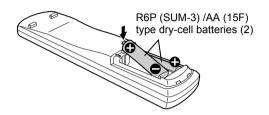


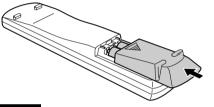
^{*} This terminal is for connecting a pair of headphones equipped with a stereo mini plug (not supplied). While the headphones are connected, the speakers do not produce any sound.



Inserting Batteries into the Remote Control







CAUTION

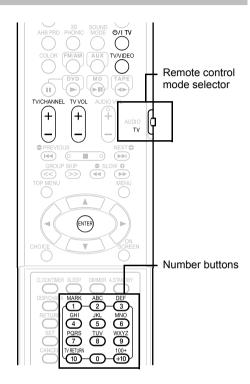
- Do not use a used battery and a new battery together.
- Do not use different types of batteries at the same time.
- Take out the batteries if the remote control is not to be used for a long time. Otherwise it may cause a leakage.

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



2 Hold down $\bigcirc^{0/1}$.

• Hold down outli step 4 is completed.

3 Press (NTEP) 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 $\bigcirc^{6/1}$.

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.

Ф/1 ТV	Turn on/off the power.	
TV/CHANNEL +	Change channels.	
TV VOL +	Adjust volume.	
MARK - WXYZ / 100+	AUDIO TV 41	Select channels.
TV RETURN	Change between the previously selected channel and the current channel.	
TV/VIDEO	Change between TV and video input.	

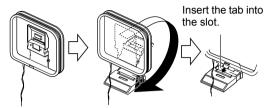
^{*1} Make sure to slide the remote control mode selector to the TV side in advance.

NOTE

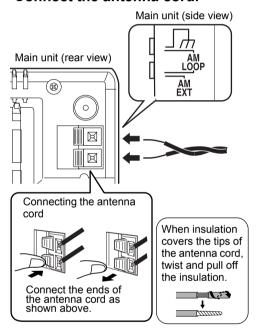
 When the batteries are replaced, perform the manufacturer's code setting again.

Connecting the Antennas

- Connecting the AM antenna
- 1 Set up the AM antenna (supplied).



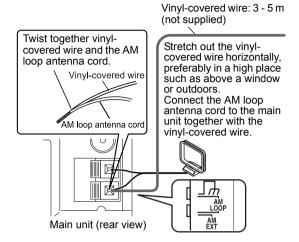
2 Connect the antenna cord.



3 Turn the AM loop antenna to find the best position for radio reception.

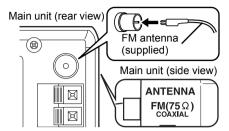
Place the AM loop antenna as far from the main unit as possible.

 Do not place the AM loop antenna on a metallic table or close to a TV, computer, or other electric appliances. Doing so may affect radio reception. ■When radio reception with the supplied AM loop antenna is poor

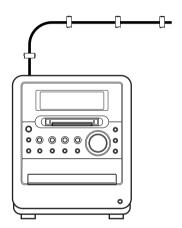


When positioning the antennas, find the best position for reception while listening to an actual radio program (refer to "Listening to Radio Broadcasts" (page 20)).

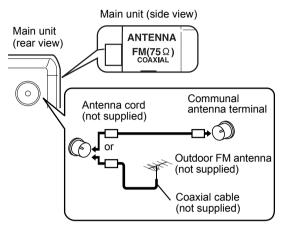
Connecting the FM antenna



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



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

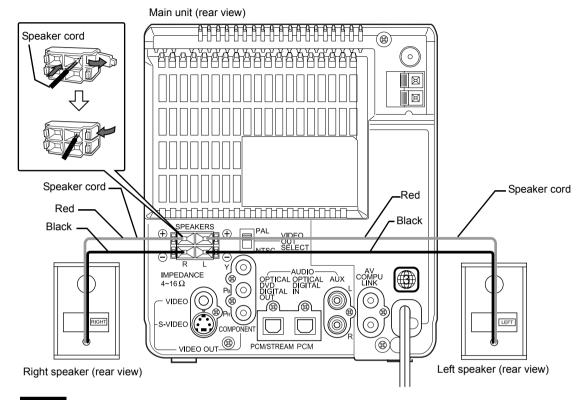


When using an antenna other than those supplied with this product, refer to the operation manuals for the antenna for details of connection.

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

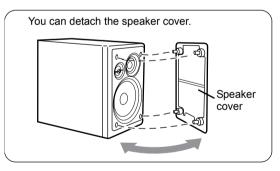
Connecting the Speakers

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



CAUTION

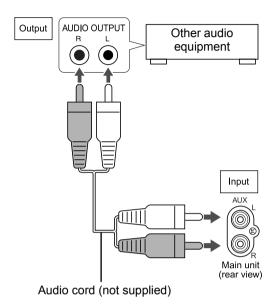
- Do not short-circuit the ⊕ and ⊖ speaker terminals. Doing so may damage the speakers.
- Do not connect other speakers together with the supplied speakers. The change in impedance may damage the main unit and the speakers.
- The speakers of this product are magnetically shielded, but color irregularities may occur on the TV depending on how the speakers are installed. Keep in mind the following.
 - Turn off the main power of your TV before installing the speakers. Wait for about 30 minutes before turning on the TV again.
 - If color irregularity occurs in pictures, keep a distance of more than 10 cm between the TV and the speakers.



- 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. The internal cooling fan automatically rotates and stops. 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

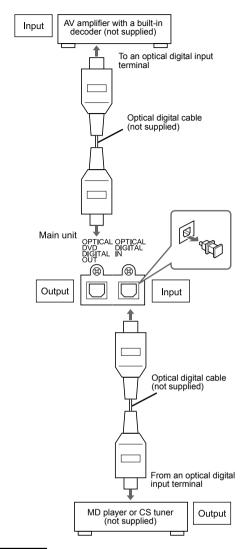
Read this section when connecting other audio equipment to this product.



CAUTION

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

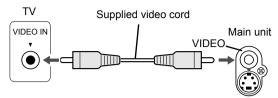
Connecting with digital equipment



CAUTION

- For details of signals to be output, refer to page 40.
- 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 40) 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.

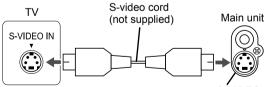
NOTE

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 39)

When a Clearer Picture Is Desired

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

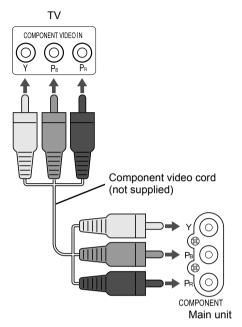
Connecting by using the S-video cord



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

Connecting by using the component video cord

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

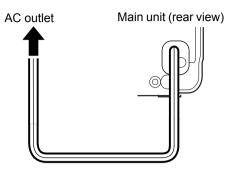


CAUTION

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

- In order to enjoy pictures with the progressive mode (page 30), 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 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

Turning on the main unit automatically cancels the demonstration display.

Resuming the demonstration display

With the power turned off, press \bigcirc on the main unit.

Hiding the demonstration display

With the power turned off, hold down on until "DEMO CLEAR" appears.

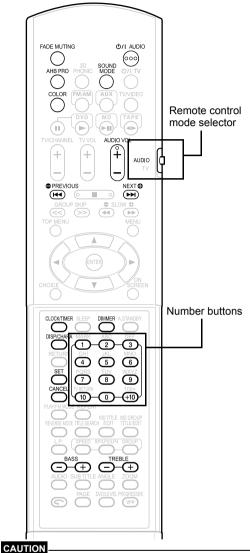
Disconnecting and then reconnecting the power plug does not start the demonstration display.

To activate the demonstration display again,

hold down 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.



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

° 64

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.



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: ⊕0 → 10

23: $(+10) \rightarrow (+10) \rightarrow (3)$



3 Press .

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 four times to display the clock, and then adjust the clock starting from step 2.

Displaying the clock while using the main unit

Press pisp/Chara repeatedly.

- 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





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:







Main unit:









NOTE

· Cooling fan is built into the main unit for emitting generated heat. The internal cooling fan automatically rotates and stops.

Adjusting the Volume

Used frequently

Press



 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

Temporarily Turning Off the Sound (FADE MUTING)



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



Emphasizing Heavy Bass Sound (AHB PRO)

AHB_PRO Press (

- Each time you press (), 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 C

 Each time you press the display toggles as follows.



: For emphasizing treble and bass sounds.



: Adequate for songs and narrations.

: For emphasizing treble



: For uplifting a feeling of being at a live performance.

sound.

: For adjusting treble and bass sounds of your choice (shown below).

: 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

- repeatedly to display "MANUĀL"
- For adjusting bass sound:

Press (—)—(+).

For adjusting treble sound;

Press (—)—(+).

- · 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 (or on the main unit).

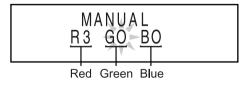
• Each time you press (), the display toggles as follows.

RAINBOW : For a rainbow-like pattern. : For a flower-image **FLOWER** pattern. Gradually changes GRADATION: the color pattern in a cycle of approximately 20 seconds. OCEAN : For an ocean-image pattern. : For a fantasy pattern. FANTASY MANUAL : For the color of your choice. (The setting R3 G0 B0

shown on the left is initial setting.)

Setting your favorite color for the display window and disc tray

- Press (repeatedly to display "MANUĂL
- Press PREVIOUS or To select a component color.



· Numerical value of the selected component color flashes.

Press



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 ().

• Each time you press , the display toggles as follows.

DIMMER DIMMER DIMMER

DIMMER

: Color pattern becomes dimmer.

: Color pattern becomes darker, and switches to blue.

: DIMMER 2 is automatically selected during video playback, and is canceled when the playback stops.

OFF: Cancels the brightness adjustment

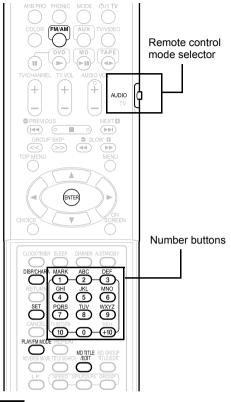
(initial setting).

- Once you press 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.

Used frequently

Listening to Radio Broadcasts

This product can receive FM and AM radio broad-



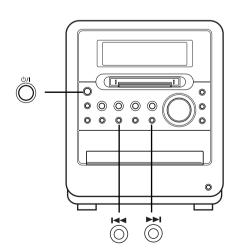
CAUTION

• Set the remote control mode selector to AUDIO 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 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 on the main unit to turn on the power. "AM 9 kHz" appears in the display window.

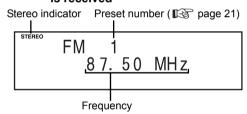
NOTE

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

Selecting a Radio Station

Press repeatedly to select

Example: Display while an FM radio broadcast is received



Press ♣PREVIOUS or ♠PREVIOUS repeatedly to select a radio station (frequency).

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

Automatic tuning:

Hold down ♣PREVIOUS or ▶EXT ♣ until the frequency starts changing, and then release the button.

When the main unit has received a broadcast, the frequency automatically stops

To quit the function while searching for a broadcast, press ♣PREVIOUS or ♠PREVIOUS or

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

- · If an FM stereo broadcast is difficult to hear because of noise, you may be able to hear more easily by pressing to switch the sound to monaural reception. In this case, "MONO" lights up. To return the sound to stereo reception, press
 - 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 C.
 - The preset number flashes for approximately 5 seconds.
- While the preset number is flashing, press the number buttons (
 - 100 or 100+ to select the preset number you want to use.
 - Refer to "Using the number buttons" (propage 17).
- 4 While the selected number is flashing, press ☐.
 - "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 17).

Entering radio station names

You can enter the name of a stored radio station using up to 8 characters.

1 Set the remote control mode selector to AUDIO.



- 2 Press O.
- - To enter radio station names, refer to "Entering Titles" (page 59).
- 4 Press ENTER
 - "STORED" appears in the display window and the entered radio station name is registered.

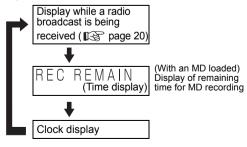
NOTE

- When you store a radio station after you have entered a radio station name, the entered radio station name with the same preset number is erased.
- You cannot enter radio station names after selecting a radio broadcast with PREVIOUS OF NEXT (FIG. 1)
- If you change the AM tuner spacing (P page 20), radio station names remain unchanged.
 Enter radio station names again, if necessary.

Changing the Display in the Display Window

Press OISP/CHARA

• Each time you press on the display toggles as follows.



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.



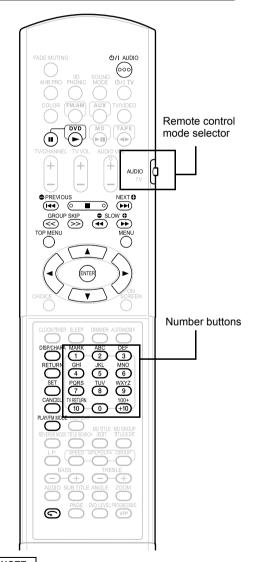






JPEG

- 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".



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



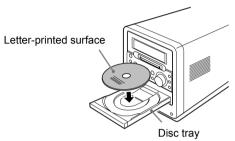
Playback

Used frequently

DVD DVD VCD SVCD C D

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

- Press on the main unit.
 - The disc tray comes out.
- 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.

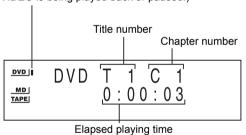
Press 🕞

■ Display for DVD VIDEO

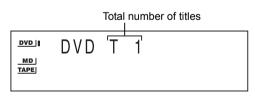
Display while a DVD VIDEO is being played back:

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:

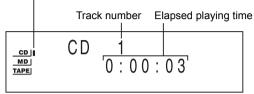


■Display for CD

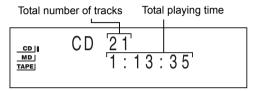
Display while a CD is being played back:

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:

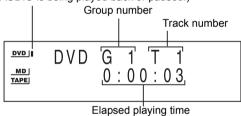


■Display for DVD AUDIO

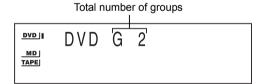
Display while a DVD AUDIO is being played back:

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:



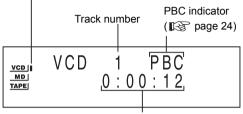
 "G1" and "T1" will appear after the total number of groups is displayed.

■ Display for VCD/SVCD

Display while a VCD/SVCD is being played back:

VCD indicator

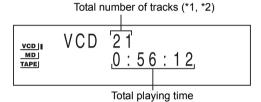
(The VCD indicator lights up while the VCD/SVCD is stopped. The VCD indicator flashes while the VCD/SVCD is being played back or paused.)



Elapsed playing time

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.

- 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 or
 - and then press enter.
- Select a menu item with the number buttons.
- Operation may differ from the explanation given here, depending on the disc type.

Messages displayed on the TV screen

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

NOW READING

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

REGION CODE ERROR!

The disc cannot be played back because its region code is not compatible. (page 4)

NO DISC

No disc is loaded.

OPEN

The disc tray is opening.

CLOSE

The disc tray is closing.

CANNOT PLAY

You are trying to play back an unplayable disc.

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



: Play

(**P** page 22)



: Pause

(**P** page 25)



: Fast reverse/Fast forward search





: Slow motion playback (reverse/ forward directions)(age 26)



: Containing multi-angle views (page 28)



: Containing multi-audio (page 27)



: Containing multi-subtitle (**I**S page 28)



: 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 results or rest to select the desired track num-

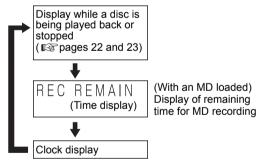
ber, and then press (PVD)

 While a VCD or SVCD is being played back, press return to the higher menu group.

Changing the Display in the Display Window

Press DISP/CHARA

- Each time you press on the display toggles as follows.
- ■While a disc is being played back (or stopped)



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

DVD VIDEO

■While a disc is being played back

Press ©.

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

Stopping Playback

Used frequently

DVD DVD VCD SVCD C D MP3 JPEG

■While a disc is being played back

Press **■ ③**.

Resuming Playback (RESUME)

DVD DVD 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 to turn off the power.	
Change the source to FM/AM or AUX.*	

* Even if the power is turned off by pressing

after this, the position where playback has been stopped will be stored.



How to start playback from the stored position

Press (PVD).

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 (Lag page 40).

Pausing Playback

DVD DVD VCD SVCD C D WMA JPEG

■While a disc is being played back

Press .

To resume normal playback, press ()

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

Advancing Picture Frame by Frame

DVD SVCD VCD DVD AUDIO

(only for moving image)

■While a disc is paused

Press (II).

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

Fast Reverse/Fast Forward Search Used frequently

DVD DVD VCD SVCD C D

There are two methods.

■While a disc is being played back

Press or .

• Each time you press $\stackrel{\bullet}{\clubsuit}$ or $\stackrel{\bullet}{\clubsuit}$, the speed increases as shown below.

• To restore the normal speed, press (PVD).

Hold down ⊕PREVIOUS or ♠NEXT .

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

- 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.

Slow Motion Playback

VIDEO VCD SVCD DVD

(only for moving image)

■While a disc is paused

Press slow or slow o

• Each time you press 🚭, the speed increases as shown below.

$$1/_{32} \Rightarrow 1/_{16} \Rightarrow 1/_8 \Rightarrow 1/_4 \Rightarrow 1/_2$$

• Press (ii) to pause playback, and press (py) 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 DVD VCD SVCD CD

■While a disc is being played back*

Press ♣PREVIOUS or ♠PREVIOUS.

- Each time you press PREVIOUS, the current chapter/track/file skips to the beginning of the previous chapter/track/file.
- track/file skips to the beginning of the next chapter/track/file.
- Press (S) or (S) 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 DVD VCD SVCD C D MP3 JPEG

- ■While a disc is being played back
- Set the remote control mode selector to AUDIO.



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 17).

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
- This operation may not be carried out for some

Selecting a Track from the Menu Screen

DVD DVD VCD SVCD

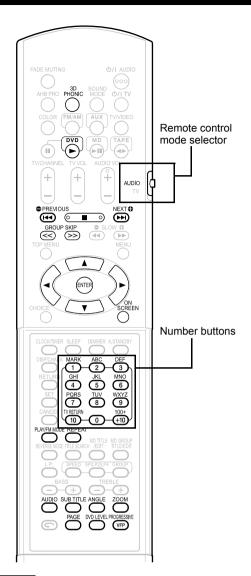
- ■While a disc is stopped or being played back*
- Set the remote control mode selector to AUDIO.



- Press or or or .
 - · A menu screen of the disc appears.
 - Only or can be used for DVD AUDIOs.
- 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" (
 - If there are two or more pages of menu screen, press energy or Next to change the pages (only for a VCD or SVCD).
- 4 Press (NTER)

- You can operate a VCD or SVCD while PBC is set
- 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



Selecting the Audio

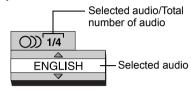
Used frequently

DVD DVD VCD SVCD

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

1 Press O.

Example: TV screen



• Each time you press , the audio will be changed. The audio can also be changed by pressing .

2 Wait for a few seconds or press



NOTE

- You can also operate this function by using the menu bar (page 35).
- For a language code such as "AA", refer to "Language Codes" (page 42).
- 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.

NOTE

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



Selecting the Subtitle

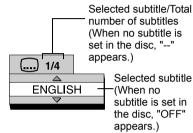
DVD SVCD DVD AUDIO

(only for moving image)

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

1 Press SUBTITLE.

Example: TV screen



- 2 Press to select a subtitle.
- 3 Wait for a few seconds or press



NOTE

- You can also operate this function by using the menu bar (p page 35).
- For an SVCD, each time you press on step 1, the subtitle type and ON/OFF will be changed.
- For a language code such as "AA", refer to "Language Codes" (page 42).
- The manner of displaying subtitles may be different depending on the disc.

Canceling the subtitle

Press to select "OFF".

Selecting a View Angle

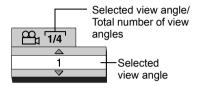
DVD DVD VIDEO AUDIO

(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 , the angle will be changed. The angle can also be changed by pressing .

2 Wait for a few seconds or press



NOTE

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

Magnifying the Picture (ZOOM)

DVD VCD SVCD DVD JPEG

(only for moving image)

■While a disc is played back or paused

1 Press O.

- Each time you press , 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



CAUTION

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

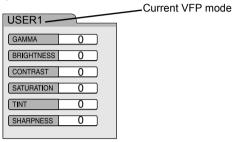
Adjusting the Picture Quality (VFP)

DVD DVD VCD SVCD JPEG

■While a disc is played back or paused

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)

Press (to select VFP mode.

NORMAL For normal playback.

(You cannot adjust the image

quality.) \rightarrow Go to step 7.

CINEMA Suitable when viewing a movie in

a dim room.

(You cannot adjust the image

quality.) \rightarrow Go to step 7.

USER1/USER2: You can adjust the image quality.

 \rightarrow Go to step 3.

Press to select an item you want to adjust.

Press (ENTER).

Example:



- Press to change the value.
- Press (ENTER)
 - To adjust other items, go back to step 3.
- Press (VFP).

NOTE

- · If no operation is made for several seconds during the procedure, the settings made so far will be automatically stored.
- "VFP" stands for "video fine processor".

Creating Realistic Sound (3D PHONIC)

VIDEO AUDIO VCD SVCD CD WMA

The two speakers produce an effect resembling surround-sound.

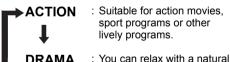
■While a disc is being played back



Example: TV screen



· Each time you press the display toggles as follows.



DRAMA atmosphere.

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

: Cancels 3D phonic (initial

setting).

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

NOTE

OFF.

- · 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)

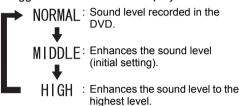
DVD DVD

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 OVD LEVEL.

• Each time you press , the display toggles as follows in the display window.



• 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.

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 VFP.

• Each time you press , the display toggles as follows.

Interlace mode (initial setting)

INTERLACE



Progressive mode

PROGRESSIVE

Playing Back the Bonus Group

DVD

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.

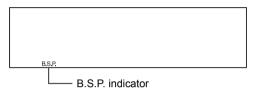


- Press ^{GROUP SKIP} repeatedly during playback to select a bonus group.
 - "KEY____" appears on the TV screen and in the display window on the main unit.
- 3 Press the number buttons to enter a pin code (4 digits).
 - The method of getting a pin code is different depending on the disc.
- 4 Press (NTER).
 - 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.)

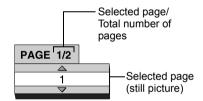
DVD

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 .
 - Each time you press , 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



NOTE

 You can operate this function on the menu bar (\$\mathbb{L}\$\mathref{\mathref{D}}\$ page 35).

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

DVD DVD VCD SVCD C D 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 ot select "PROGRAM".

■Display for DVD VIDEO

Program indicator

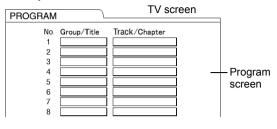
■ Display for DVD AUDIO/MP3/WMA DVD, MP3 or WMA

■ Display for CD/VCD/SVCD

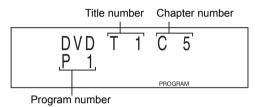


"VCD" is displayed while Program indicator VCD/SVCD is selected.

Example: For DVD VIDEO

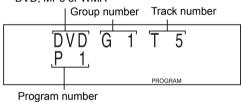


- Press the number buttons (1 10 or 10) to program chapters/tracks.
- Display for DVD VIDEO
 - Select a title number, and then select a chapter number.



- ■Display for DVD AUDIO/MP3/WMA
 - Select a group number, and then select a track number.

DVD, MP3 or WMA



- Display for CD/VCD/SVCD
 - Select a track number.

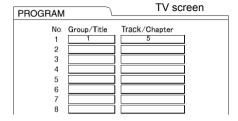
CD 5 P 1 0:04:23

Program number Total til

CD or VCD Track number

Total time for program playback

Example: For DVD VIDEO



- Refer to "Using the number buttons" (page 17).
- Before selecting a bonus group of a DVD AUDIO, cancel the "BONUS" display as explained in "Playing back the Bonus Group" on page 31.
- When you try to enter more than 99 chapters or tracks, "MEMORY FULL" appears.

4 Press DVD.

NOTE

- You can set tracks from either a disc or MD in a program playback setting.
- 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

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



NOTE

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

Random Playback

DVD DVD VCD SVCD C D MP3 WMA

You can listen to tracks or chapters in random order.

- While playback is stopped
- 1 Press repeatedly to select "RANDOM".

Example: For CD



- "RANDOM" appears in the TV screen.
- 2 Press PVD

NOTE

- You can set tracks in random playback from either a disc or MD.
- 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 repeatedly to display an item other than "RANDOM".

NOTE

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

Repeat Playback

DVD DVD VCD SVCD CD

Refer to page 38 for repeat playback of MP3/WMA and JPEG files.

■While a disc is being played back

_	REPEAT
Press	\bigcirc .

• Each time you press each, 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* ^Ç
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	Ď OFF	REPEAT OFF	

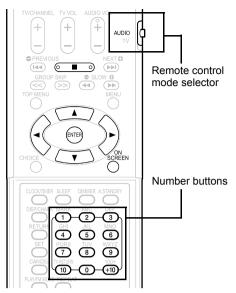
For CD/VCD/SVCD

101 001 10010 100			
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 ALL	REPEAT ALL ⊊ALL	
Cancels repeat	OFF OFF	REPEAT OFF	

^{* &}quot;STEP" is displayed during program playback or random playback.

- For a VCD and SVCD, the operation can be carried out during playback without the PBC function (IPP page 24).
- You can also operate this function on the menu bar (page 35).
- For details on A-B repeat (repeat playback of a designated part), refer to page 36.

Status Bar and Menu Bar



DVD DVD VCD SVCD C D

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 AUDIO before using the number buttons.



Using the Status Bar and Menu Bar

■While a disc is being played back

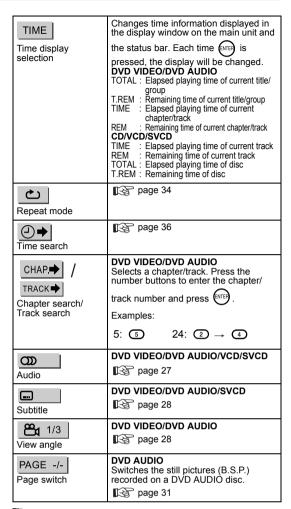
1 Press or twice.



- The above is an example for a DVD VIDEO.
- 2 Press to select an item you want to operate.
- 3 Press (NTER).
 - 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 SCREEN

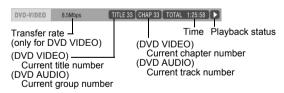
Function list

Press to select, and press to determine unless otherwise noted.

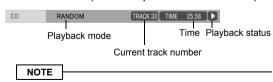


Information displayed on the status bar

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



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



 The playback status mark has the same meaning of the mark on the on-screen guide (page 24).

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

DVD DVD VCD SVCD C D

■While a disc is being played back

1 Press on twice.

• The menu bar (page 35) appears.

2 Press () to select coff.

3 Press enter).

4 Press to select

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

• The icon on the menu bar will be 🕒 .

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

• The icon on the menu bar will be <u>CAB</u>.

"

A-B" appears in the display window or

"

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:

 - Select <u>A-B</u> and press wice. (Select <u>OFF</u>).)

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 DVD VCD SVCD C D

■While a disc is being played back

1 Set the remote control mode selector to AUDIO.



- 2 Press on twice.
 - The menu bar appears (page 35).
- 3 Press () to select (→).
- 4 Press even.
- 5 Enter the time using the number buttons (1)-(9), (0).

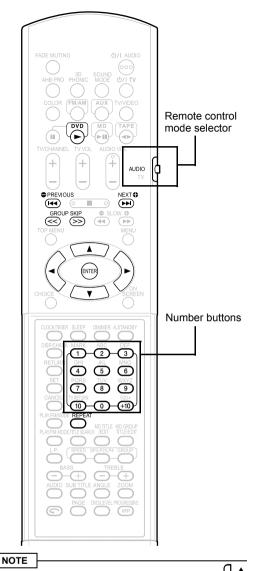
Example: When you want to play back a disc from the position of (0 hour) 23 minutes 45 seconds, press the buttons in the order:



- 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 even.
 - To delete the menu bar, press

- 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



 Set the remote control mode selector to $_{\rm AUDIO}$ AUDIO before using the number buttons. $_{\rm TV}$

Playback



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

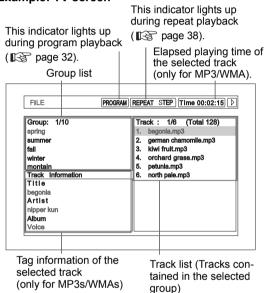
For a JPEG disc, read "track" as "file".

NOTE

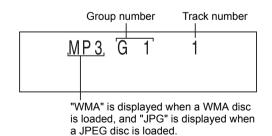
 When playing back a disc containing both MP3/ WMA and JPEG files, set one of them to be played (\$\mathbb{L}\mathbb{S}\$ page 39).

1 Insert a disc.

Example: TV screen



Example: Display window

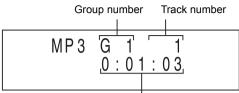


- 2 Press to select a group.
- **3** Press > to move to the track list.
 - Pressing (returns to the group list.

4 Press 🗘 🔻 to select a track.

5 Press or even.

Example: Display during playback



Elapsed playing time (This indicator is not displayed while a JPEG is loaded.)

- · 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 $\stackrel{\mathsf{GROUP\ SKIP}}{\Longleftrightarrow}$ and $\stackrel{\mathsf{GROUP\ SKIP}}{\Longrightarrow}$ 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 17).
- 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 in step 5, files are continuously played back from the selected file (slide-show playback). When you press 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 EPEAT.

• Each time you press entry, the repeat type is changed.

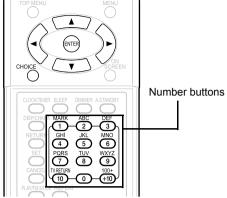
Repeat types	Display on the TV screen	Display in the display window on the main unit	
Repeats the current track (only for MP3/ WMA)	REPEAT TRACK*	REPEAT* TRACK	Ç
Repeats the current group	REPEAT GROUP	REPEAT GROUP	GROUP
Repeats the entire disc	REPEAT ALL	REPEAT ALL	ÇALL
Cancels repeat playback	No display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

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

- 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





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

CAUTION

 Set the remote control mode selector to AUDIO 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.

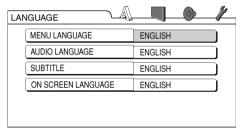
Basic Operations

This section explains basic operation for changing various settings.

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

Press

 "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" (R page 42).

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.	



Items	Contents (: initial setting)	
RESUME	(🎼 page 25)	
ON SCREEN GUIDE	Select whether you display guide icons on the on-screen guide indicating status of a disc/main unit (For details on the guide icons, refer to page 24)	
AV COMPU LINK MODE	When you want to control JVC TV by using this product, select a mode that matches the terminal from the following. (For more details, refer to "Using AV COMPU LINK" on page 73.)	
	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 41) 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

Dlayback diag	DIGITAL AUDIO OUTPUT preference		
Playback disc	STREAM/PCM	DOLBY DIGITAL/PCM	PCM ONLY
48 kHz, 16/20/24 bits Linear PCM DVD VIDEO 96 kHz linear PCM DVD VIDEO	48 kHz, 16 bits stereo linear PCM		
48/96/192 kHz, 16/20/24 bits linear PCM DVD AUDIO		48 kHz, 16 bits stereo linear PCM	1
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		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		oits linear PCM
MP3/WMA disc	32/44.1/48 kHz, 16 bits linear PCM		

[•] 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 AS	Argentina
	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AZ	Azerbaijan
BA	Bosnia and
	Herzegovina
BB	Barbados
BD	Bangladesh
BE	Belgium
BF	Burkina Faso
BG	Bulgaria
ВН	Bahrain
BI	Burundi
BJ	Benin
BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia
BR	Brazil
BS	Bahamas
BT	Bhutan
BV	Bouvet Island
BW	Botswana
BY	Belarus
BZ	Belize
CA	Canada
CA	Canada Cocos (Keeling) Islands
CA	Canada Cocos (Keeling)
CA	Canada Cocos (Keeling) Islands
CA	Canada Cocos (Keeling) Islands Central African
CA CC CF	Canada Cocos (Keeling) Islands Central African Republic
CA CC CF CG CH	Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland
CA CC CF CG CH	Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire
CA CC CF CG CH CI CK	Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands
CA CC CF CG CH CI CK CL	Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile
CA CC CF CG CH CI CK CL	Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon
CA CC CF CG CH CI CK CL CM	Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon
CA CC CF CG CH CI CK CL CM CN CO	Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia
CA CC CF CG CH CI CK CL CM CN CO CR	Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica
CA CC CF CG CH CI CK CL CM CN CO CR CU	Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba
CA CC CF CG CH CI CK CL CM CN CO CR CU CV	Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde
CA CC CF CG CH CI CK CL CM CN CO CR CU CV CX	Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island
CA CC CF CG CH CI CK CL CM CN CO CR CU CV CX CY	Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus
CA CC CF CG CH CI CK CL CM CN CO CR CU CV CY CZ	Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic
CA CC CF CG CH CI CK CL CM CO CR CU CV CY CZ DE	Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany
CA CC CF CG CH CI CK CL CM CO CR CU CV CY CZ DE DJ	Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti
CA CC CF CG CH CI CK CL CM CO CR CU CV CY CZ DE	Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany
CA CC CF CG CH CI CK CL CM CO CR CU CV CY CZ DE DJ	Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti
CA CC CF CG CH CI CK CL CM CN CO CR CU CV CY CY CZ DE DJ DK	Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark
CA CC CF CG CH CI CK CL CM CN CO CR CU CV CY CY CZ DE DJ DK DM	Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark
CA CC CF CG CH CI CK CL CM CN CO CR CV CZ DE DJ DK DM DO DZ	Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominican Republic
CA CC CF CG CH CI CK CL CM CN CO CR CV CY CZ DE DJ DK DM DO	Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica Dominica Republic Algeria Ecuador
CA CC CF CG CH CI CK CL CM CN CO CR CU CV CZ DE DJ DK DM DO DZ EC EE	Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica Dominica Republic Algeria Ecuador Estonia
CA CC CF CG CH CI CK CL CM CO CR CU CV CZ DE DJ DK DM DO DZ EC EE	Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica Dominican Republic Algeria Ecuador Estonia Egypt
CA CC CF CG CH CI CK CL CM CN CO CR CU CV CZ DE DJ DK DM DO DZ EC EE	Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Côte d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica Dominica Republic Algeria Ecuador Estonia

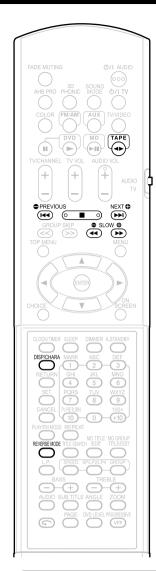
ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands
	(Malvinas)
FM	Micronesia
	(Federated States of)
FO	Faroe Islands
FR	France
FX	France, Metropolitan
GA	Gabon
GB	United Kingdom
GD	Grenada
GE	Georgia
GF	French Guiana
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe
GQ	Equatorial 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
10	British Indian Ocean
	Territory
IQ	Iraq
IR	Iran (Islamic Republic of)
IS	Iceland
IT	Italy
JM	Jamaica
JO	Jordan
JP	Japan
KE	Kenya
KG	Kyrgyzstan
KH	Cambodia
KI	Kiribati
KM	Comoros
KN	Saint Kitts and Nevis
KP	Korea, Democratic
	People's Republic of
KR	Korea, Republic of
	· · · · · · · · · · · · · · · · · · ·
KW	Kuwait
KY	Cayman Islands
KZ	Kazakhstan
LA	Lao People's
	Democratic Republic
LB	Lebanon

LC	Saint Lucia
LI	Liechtenstein
LK	Sri Lanka
LR	Liberia
LS	Lesotho
LT	Lithuania
LU	Luxembourg
LV	Latvia
LY	Libyan Arab
	Jamahiriya
MA	Morocco
MC	Monaco
MD	Moldova, Republic of
MG	Madagascar
MH	Marshall Islands
ML	Mali
MM	Myanmar
MN	Mongolia
MO	Macau
MP	Northern Mariana
IVIE	Islands
MO	
MQ MB	Martinique Mauritania
MR	
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
	Miguelon
PN	Pitcairn
PR	Puerto Rico
PT	Portugal
PW	Palau
PY	Paraguay
	Qatar
QA RE	Réunion
RE RO	Reunion
RU	Russian Federation
RW	Rwanda Soudi Arabia
SA	Saudi Arabia
SB SC	Solomon Islands Seychelles
	SOVERDIDE

SD	Sudan
SE	Sweden
SG	Singapore
SH	Saint Helena
SI	Slovenia
SJ	Svalbard and Jan
33	
014	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
10	
	Islands
TD	Chad
TF	French Southern
	Territories
TG	Togo
TH	Thailand
TJ	Tajikistan
TK	Tokelau
TM	Turkmenistan
TN	Tunisia
TO	
TP	Tonga
	East Timor
TR	Turkey
TT	Trinidad and Tobago
TT	Trinidad and Tobago
TT TV	Trinidad and Tobago Tuvalu
TT TV TW	Trinidad and Tobago Tuvalu Taiwan
TT TV TW TZ	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of
TT TV TW TZ	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine
TT TV TW TZ UA UG	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda
TT TV TW TZ	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor
TT TV TW TZ UA UG UM	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands
TT TV TW TZ UA UG UM	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States
TT TV TW TZ UA UG UM US UY	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay
TT TV TW TZ UA UG UM US UY UZ	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan
TT TV TW TZ UA UG UM US UY	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State
TT TV TW TZ UA UG UM US UY UZ VA	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See)
TT TV TW TZ UA UG UM US UY UZ	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State
TT TV TW TZ UA UG UM US UY UZ VA	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See)
TT TV TW TZ UA UG UM US UY UZ VA	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the
TT TV TW TZ UA UG UM US UY UZ VA	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela
TT TV TW TZ UA UG UM US UY UZ VA VC VE	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British)
TT TV TW TZ UA UG UM US UY UZ VA VC VE VG VI	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) Virgin Islands (U.S.)
TT TV TW TZ UA UG UM US UY UZ VA VC VE VG VI VN	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) Virgin Islands (U.S.) Viet Nam
TT TV TW TZ UA UG UM US UY UZ VA VC VE VG VI VN VU	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) Virgin Islands (U.S.) Viet Nam Vanuatu
TT TV TW TZ UA UG UM US UY UZ VA VC VE VG VI VN	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) Virgin Islands (U.S.) Viet Nam Vanuatu Wallis and Futuna
TT TV TW TZ UA UG UM US UY UZ VA VC VE VG VI VN VU WF	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (U.S.) Viet Nam Vanuatu Wallis and Futuna Islands
TT TV TW TZ UA UG UM US UY UZ VA VC VE VG VI VN VV WF	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (U.S.) Viet Nam Vanuatu Wallis and Futuna Islands Samoa
TT TV TW TZ UA UG UM US UY UZ VA VC VE VG VI VN VU WF WS YE	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (U.S.) Viet Nam Vanuatu Wallis and Futuna Islands
TT TV TW TZ UA UG UM US UY UZ VA VC VE VG VI VN VV WF	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (U.S.) Viet Nam Vanuatu Wallis and Futuna Islands Samoa
TT TV TW TZ UA UG UM US UY UZ VA VC VE VG VI VN VU WF WS YE	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) Virgin Islands (U.S.) Viet Nam Vanuatu Wallis and Futuna Islands Samoa Yemen
TT TV TW TZ UA UG UM US UY UZ VA VC VE VG VI VN VU WF WS YE YT	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Ugand a United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) Virgin Islands (U.S.) Viet Nam Vanuatu Wallis and Futuna Islands Samoa Yemen Mayotte
TT TV TW TZ UA UG UM US UY UZ VA VC VE VG VI VN VU WF WS YE YT YU	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) Virgin Islands (U.S.) Viet Nam Vanuatu Wallis and Futuna Islands Samoa Yemen Mayotte Yugoslavia
TT TV TW TZ UA UG UM US UY UZ VA VC VE VG VI VN VU WF WS YE YT YU ZA ZM	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) Virgin Islands (U.S.) Viet Nam Vanuatu Wallis and Futuna Islands Samoa Yemen Mayotte Yugoslavia South Africa
TT TV TW TZ UA UG UM US UY UZ VA VC VE VG VI VN VU WF WS YE YT YU ZA	Trinidad and Tobago Tuvalu Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) Virgin Islands (U.S.) Viet Nam Vanuatu Wallis and Futuna Islands Samoa Yemen Mayotte Yugoslavia South Africa Zambia

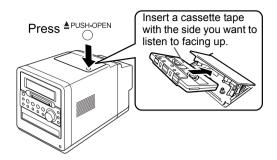
Language Codes

AA Afar MK Macedonian AB Abkhazian ML Malayalam AF Afrikaans MN Mongolian AM Ameharic MO Moldavian AR Arabic MR Marathi AS Assamese MS Malay (MAY) AY Aymara MT Maltese AZ 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 GU Gujarati SQ Albanian HA Hausa SR Serbian HI Hindi SS Siswati HR Croatian SV Swedish IN Indonesian TG Tajik II Indonesian TG Tajik II Interlingua SW Swahili IIE Interlingua SW Swahili IIE Interlingua SW Swahili III Interlingua TA Tamil IIK Inupiak TE Telugu IIN Indonesian TG Tajik IIN Indonesian TG Tajik IIN Indonesian TG Tajik IIN Indonesian TG Tajik IIN Indonesian TR Turkish KK Garbodian TS Tsonga	Code	Language	Code	Language
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 GN Guarani SO Somali GU Gujarati SQ Albanian HA Hausa SR Serbian HI Hindi SS Siswati HR Croatian SV Swedish IA Interlingue TA Tamil IK Inupiak TE Telugu IN Indonesian TG Tajik IS Icelandic TR Turkish KK Kazakh TO Tonga KK Greenlandic TR Turkish	AA		MK	
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 GN Guarani SO Somali GU Gujarati SQ Albanian HA Hausa SR Serbian HI Hindi SS Siswati HR Croatian TG Tajik IR Interlingua SW Swedish IA Interlingua SW Swashili IE Interlingua TA Tamil IIK Inupiak TE Telugu IN Indonesian TG Tajik IS Icelandic TH Thai IW Hebrew TI Tigrinya JJ Yiddish TK Turkmen KK Kazakh TO Tonga KK Kazakh TO Tonga KK Kazakh TO Tonga KK Kazakh TO Tonga KK Greenlandic TR Turkish	AB	Abkhazian	ML	
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 GN Guarani SO Somali GU Gujarati SQ Albanian HA Hausa SR Serbian HI Hindi SS Siswati IR Inupiak TE Telugu IN Indonesian TG Tajik IS Icelandic TH Thai IW Hebrew TI Tigrinya JJ Yiddish TK Turkmen JW Javanese TL Tagalog KK Kazakh TO Tonga	AF		MN	
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 EL Greek RO Rumanian EL 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 GU Guarani SO Somali GU Gujarati SQ Albanian HA Hausa SR Serbian HI Hindi SS Siswati HR Croatian TG Tajik II Interlingua IK Turkish IK Turkish IK Turkmen JW Javanese TL Tagalog KK Gacgian TN Setswana KK Kazakh TO Tonga KK Gacenlandic TR Turkish				
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 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 HH Hindi SS Siswati HR Croatian SV Swedish IA Interlingua SW Swahili IE Interlingue TA Tamil IK Inupiak TE Telugu IN Indonesian TG Tajik IS L Slevana KK Sazakh TO Tonga KK Kazakh TO Tonga KK Kazakh TO Tonga KK Kazakh TO Tonga				
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 CY Welsh QU Quechua DA Danish RM Rhaeto-Romance DZ Bhutani RN Kirundi EL Greek <td></td> <td></td> <td></td> <td></td>				
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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 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 SV Swedish II Interlingua SW Swahili IE Interlingua SW Swahili IE Interlingua TA Tamil IK Inupiak TE Telugu IN Indonesian TG Tajik IS Icelandic TH Thai IW Hebrew TI Tigrinya JI Yiddish TK Turkmen JJ Javanese TL Tagalog KK Kazakh TO Tonga KK Kazakh TO Tonga KK Kazakh TO Tonga KK Kazakh TO Tonga				
BEByelorussianNENepaliBGBulgarianNLDutchBHBihariNONorwegianBIBislamaOCOccitanBNBengali, BanglaOM(Afan) OromoBOTibetanOROriyaBRBretonPAPanjabiCACatalanPLPolishCOCorsicanPSPashto, PushtoCSCzechPTPortugueseCYWelshQUQuechuaDADanishRMRhaeto-RomanceDZBhutaniRNKirundiELGreekRORumanianEOEsperantoRURussianETEstonianRWKinyarwandaEUBasqueSASanskritFAPersianSDSindhiFIFinnishSGSanghoFJFijiSHSerbo-CroatianFOFaroeseSISinghaleseFYFrisianSKSlovakGAIrishSLSlovenianGDScots GaelicSMSamoanGLGalicianSNShonaGNGuaraniSOSomaliGUGujaratiSQAlbanianHAHausaSRSerbianHIHindiSSSiswatiHRCroatianSTSesothoHUHungarianSUSundaneseHYArmenianSV				
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KS Kashmiri UK Ukrainian				
KU Kurdish UR Urdu				
KY Kirghiz UZ Uzbek				
LA Latin VI Vietnamese			VI	
LN Lingala VO Volapuk	LN	Lingala		Volapuk
LO Laothian WO Wolof		Laothian	WO	Wolof
LT Lithuanian XH Xhosa	LT		XH	Xhosa
LV Latvian, Lettish YO Yoruba	LV	Latvian, Lettish	YO	
MG Malagasy ZU Zulu	MG	Malagasy	ZU	
MI Maori				



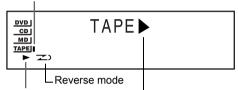
	Operation
Stop	Press ••.
Fast forward/ Rewind	Press PREVIOUS • When a cassette tape is played back in the normal direction (►), PREVIOUS • When the cassette tape is played back in the previous is rewind. • When the cassette tape is played back in the opposite direction (◄), • PREVIOUS is fast forward and PREVIOUS is fast forward and PREVIOUS • SLOW OF SL

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.)



Cassette tape playback direction (►: normal direction/◄: opposite direction)

CAUTION

- Before using a cassette tape, wind up any slack in the cassette tape. (page 75)
- 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 repeatedly to select the reverse mode.

: For one return playback of both

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

: For one-way playback of either side.

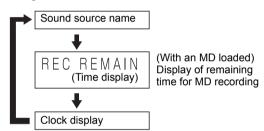
3 Press (TAPE).

- · Playback starts.
- When the main unit is turned off, pressing
- $\stackrel{\text{\tiny TAPE}}{ }$ 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.

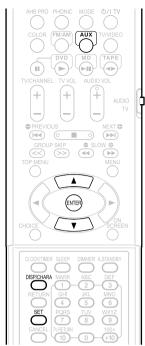
Changing the Display in the Display Window

Press DISP/CHARA.

• Each time you press on the display toggles as follows.



Listening to Other Equipment



- 1 Press O.
 - Each time you press \(\bigcirc^{\infty} \), the display toggles as follows.

AUX

‡

: To listen to sound from other equipment connected to the AUX terminals on the main unit

AUX-DIGITAL

- : To listen to sound from other equipment connected to the OPTICAL DIGITAL IN terminal on the main unit.
- 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 18).

Adjusting the Sound Input Level from Other Equipment

Adjusting the sound input level of the AUX

1 Press repeatedly to select "AUX".

- 2 (With "AUX" being displayed) Hold down on 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.

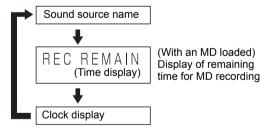
Adjusting the sound input level of the AUX-DIGITAL

- 1 Press repeatedly to select "AUX-DIGITAL".
- 2 (With "AUX-DIGITAL" being displayed) Hold down input level appears.
- 3 Press or to adjust the input level.
 - You can adjust the input level within the range of -12 dB to 12 dB (in increments of 2 dB). The initial setting is 0 dB.
- 4 Press ENTER

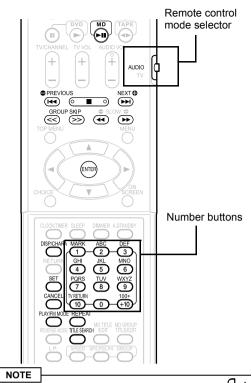
Changing the Display in the Display Window

Press DISP/CHARA

• Each time you press OBSPICHARA, the display toggles as follows.



Listening to MDs



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

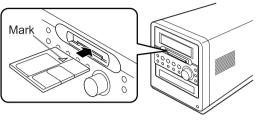
	Operation				
Stop	Press •••.				
Pause	Press during playback. Pressing				
	again resumes playback.				
Skip	Press the button repeatedly.				
Fast for-	PREVIOUS Hold down the button during NEXT © playback.				
ward/ Rewind (Search)	Press the button during				
	playback. (Pressing Playback)				
	during search resumes normal playback.)				
Eject	Press ⊚ on the main unit.				

Listening to MDs

Used frequently

When the main unit is turned on

1 Insert an MD.



CAUTION

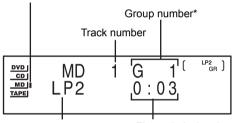
Do not insert an MD while the main unit is turned off.
 Forcibly inserting an MD may damage the main unit.

2 Press 📶.

■Display while an MD is being played back

MD indicator

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



MDLP mode (**I**S page 51)

Elapsed playing time

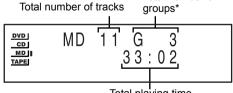
Total number of

- When the track title has been set to the track, the track title appears first.
- * When the track being played back does not belong to a group, "G -" appears.

CAUTION

 Do not insert another MD while the MD indicator is lighting up or flashing. Forcibly inserting an MD may damage the main unit.

■Display while the MD is stopped



Total playing time

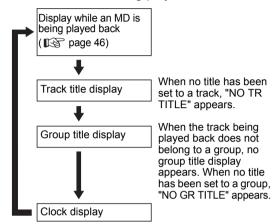
- When the MD title (the disc title) has been set to the MD, the MD title appears first.
- · Long titles are scrolled.
- * When no group belongs to the MD, "G -" appears.

Changing the Display in the Display Window

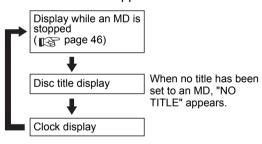
Press DISP/CHARA.

• Each time you press on the display toggles as follows.

■While an MD is being played back



■While an MD is stopped



NOTE

 While an MD is selected as the sound source, when you insert an MD to which nothing has been recorded, "BLANK DISC" appears.

Specifying the Track (Direct Track Selection)

1 Set the remote control mode selector to AUDIO.

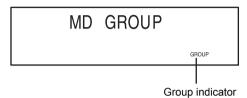


- Press the number buttons (1 0 or 40) to select the track you want to listen to.
 - Refer to "Using the number buttons" (
 page 17).

Group Playback of an MD

You can play back just the tracks from a group which you want to listen to.

- ■While an MD is stopped
- 1 Press repeatedly to select "GROUP".



- 2 Press Property
 - Group 1 playback starts.
 - If there is no group, "GROUP" disappears and normal playback starts.
- 3 Press ≪ or ^{GROUP SKIP} or Select a group.
 - When playback of all tracks in the selected group finishes, playback automatically stops.

Canceling group playback

While playback is stopped, press repeatedly to select an item other than "GROUP".

NOTE

 Ejecting the MD or turning off the main unit also cancels group playback.

Program Playback

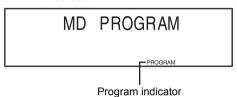
This function allows you to program up to 32 tracks.

- ■While the MD is stopped
- Set the remote control mode selector to AUDIO.

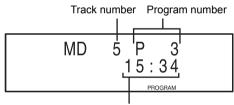


2 Press CLAYFEM MODE to select "PROGRAM".

Example: Display while MD program playback is selected



- - Refer to "Using the number buttons" (page 17).



Total time for program playback

NOTE

- When you want to erase the program, press while playback is stopped. Programmed tracks are erased one by one from the last track. Holding
 - down cancel erases all programmed tracks.
- When you try to program the 33rd track, "MEM-ORY FULL" appears in the display window to indicate that 33 or more tracks cannot be programmed.
- When total time for program playback reaches 2 hours 31 minutes for an MD, "--:--" appears.

4 Press

NOTE

 You can set tracks for program playback either from a CD, MD or DVD.

Confirming the programmed track order

While playback is stopped, press

PREVIOUS Or ► repeatedly.

- You can add a track as the last track in the program, or erase the last track.
 (ISF step 3)
- Canceling the program playback
 While playback is stopped, press

repeatedly to display an item other than "PROGRAM".

• This operation does not erase the program.

Erasing all the programmed tracks

While playback is stopped, hold down

NOTE

 Ejecting the MD or turning off the main unit also erases all the programmed tracks. This operation also cancels program playback.

Random Playback

This function allows you to listen to tracks in random order.

- ■While a disc is stopped
- 1 Press repeatedly to select "RANDOM".

Example: Display while MD random playback is selected



2 Press Property

- You can set tracks for random playback either from a CD, MD or DVD.
- Pressing repeatedly does not return playback to the previous track.
- Each track is played back once.

Canceling the random playback

While playback is stopped, press PLAYIFM MODE repeatedly to display an item

other than "RANDOM".

NOTE

· Ejecting the MD or turning off the main unit also cancels random playback.

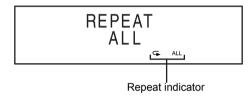
Repeat Playback

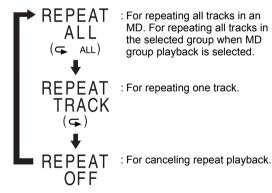
This function allows you to repeatedly listen to the same track.

During MD playback, press CPEAN repeatedly to select the repeat mode.

• Each time you press network, the display toggles as follows.

Example: While "REPEAT ALL" is selected





NOTE

· Ejecting the MD or turning off the main unit also cancels repeat playback.

Searching Titles

This function allows you to search titles for tracks or groups in an MD.

- ■While a disc is stopped
- Set the remote control mode selector to AUDIO.



Press repeatedly to select the search type.



For searching track titles.



For searching group titles. (This function is available only when there are

Press .

Example: Display while track titles are being searched



While group titles are being searched, "GROUP SEARCH" is displayed.

Enter the title you want to search.

• Enter the first one to five characters of the title.

Example: Entering "F" searches titles starting with "F" in order of track number.

Entering "Frien" searches titles starting with "Frien" in order of track number.

- For entering titles, refer to "Entering Titles" (page 59).
- · When searching tracks or groups with no titles, enter nothing, and then proceed to step 5.

Press (ENTER)

 "SEARCH" appears and the title search starts. When the title is found, playback of the track starts. When playback finishes, the next title search automatically starts.

- A space is treated as a character. However, when no character exists after the space, the space is
- Capital letters and small letters are distinguished.
- · When no corresponding titles are found, "SEARCH END" appears.

Searching another track or group title

Press ♠ (or ♣ SKIP).

Quitting the title search

Press .

• The title search is canceled and playback returns to the beginning of the current track.

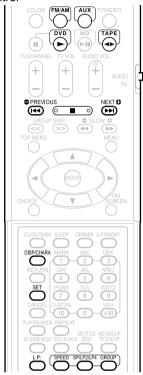
> **SEARCH END**

Recording Sound to MDs Used frequently

Main unit



Remote control



Recording All Tracks from a Disc to an MD

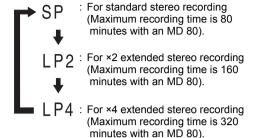
- Press (), and then press ().
 - The DVD is selected as the sound source and playback is stopped.
- ■When recording sound from DVD VIDEOs
 - Play back a title or chapter, pause playback, and then press PREVIOUS to return to the beginning of the first title/chapter.
 - You may not be able to record a DVD VIDEO depending on the disc.

Insert an MD.

 Close the write protect knob on the MD beforehand (page 75).

Press of to select the MDLP mode.

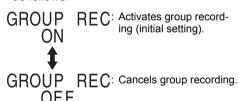
• Each time you press , the display toggles as follows.



- · As you change the MDLP mode (SP→LP2→LP4), the sound quality also changes. When you want to record sound at the best possible quality, select the SP mode.
- · When you use an MD car audio system, portable MD player or other MD player that is not compatible with the MDLP mode, select the SP mode.

Press $\stackrel{\text{\tiny GROUP}}{\longrightarrow}$ to set group recording.

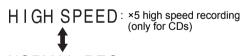
• Each time you press , the display toggles as follows.



· You can form or cancel a group after the recording finishes. (pages 63 and 66)

Press to select the recording speed.

• Each time you press , the display toggles as follows.



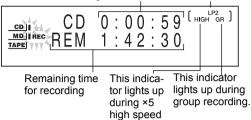
NORMAL REC: Normal speed recording

- · Select "NORMAL REC" when you want to play back a disc other than a CD.
- · Recorded sound quality is the same for both "HIGH SPEED" and "NORMAL REC".
- You cannot listen to the sound during ×5 high speed recording.

6 Press on the main unit.

Example: Display while CD is recorded

Elapsed playing time of the track being recorded MDLP mode



 When recording finishes, the color pattern of the display window and disc tray changes to the color pattern set in "MANUAL" to inform you that recording has finished (page 19).

recording.

 When "HCMS CANNOT COPY" appears, refer to pages 74 and 76.

NOTE

- The recorded sound level is automatically adjusted.
- The CD rotates at high speed during x5 high speed recording. Therefore, depending on the condition of the CD, the sound may be recorded improperly and affected by noise. If the sound is not recorded properly, select normal speed recording.
- The remaining time for recording differs depending on the selected MDLP mode.
- You cannot record sound while the repeat playback function is on. Starting the recording function automatically cancels repeat playback.
- While recording a DVD video, you cannot make settings on the DVD including audio, subtitle, view angles, picture magnification and 3D PHONIC selection.

Quitting Recording

Press **■ ③**.

Recording Only One Track from a Disc

(Excluding DVD VIDEOs)

Before proceeding to step 6, start playback of the track you want to record.

- Pressing in step 6 returns playback to the beginning of the track, and only that track is recorded.
- This one-track recording is not available for DVD VIDEOs.

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

■When recording CDs/VCDs/SVCDs/DVD VIDEOs (For a DVD VIDEO: while the disc is paused)

Before proceeding to step 6, select the starting track or chapter number by pressing PREVIOUS or PREVIOUS OF PREVI

■When recording DVD AUDIOs/MP3s/ WMAs

Before proceeding to step 6, select the group number by pressing ROUP SKIP

SROUP SKIP

and then select the track

number by pressing PREVIOUS OF REXT PROPERTY.

The select the track

number by pressing REXT PREVIOUS OF REXT PROPERTY.

Program Recording from a Disc

Before performing step 1 on page 51, program the tracks you want to record (

Select normal speed recording (step 5 on page 51).

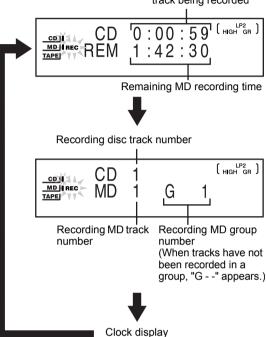
When you select "HIGH SPEED" and proceed to step 6, "CANNOT REC × 1 REC ONLY" appears in the display window and recording does not start.

Changing the display in the display window during recording

Press DISP/CHARA.

• Each time you press on the display toggles as follows.

Elapsed playing time of the chapter or track being recorded



Things You Should Know about MD Recording

- It may be unlawful to record or playback copyright material without the consent of the copyright owner.
- You can record tracks having different MDLP modes onto an MD.
- You cannot use the monaural extended recording function with this product.

CAUTION

- Do not bump or sway the main unit during MD recording. Be especially careful while "WRITING" is displayed. Such movement may interfere with MD playback
- You cannot play back tracks recorded in LP2 or LP4 with audio equipment that is not compatible with MDLP. When you attempt playback, "LP: " appears in front of the track title, and the main unit does not produce any sound. When you play back tracks recorded in LP2 or LP4 with audio equipment that is compatible with MDLP, "LP: " does not appear.

To activate or cancel the "LP: " indicator, press . . . (The on the right)

"LP: " indicator setting

Press .

 Each time you press , the display toggles as follows.

(LP:) ON : For adding "LP: " to the track title.

(LP:) OFF: For deleting "LP: " from the track title.

CD-R/CD-RW/DVD AUDIO recording

• When you record sound from a CD-R, CD-RW or DVD AUDIO onto an MD, pressing may display "SCMS CANNOT COPY" in the display window, and digital recording may not be available.

In such a case, set the recording speed to nor-

In such a case, set the recording speed to normal, hold down for 4 or more seconds.

While "ANALOG REC?" is displayed, press

once again to select analog recording.

- You can record up to 254 tracks to an MD. If you try to record 255 or more tracks, "DISC FULL" appears.
- When you use a partially-recorded MD, this product searches for the blank portion and records the new tracks to that portion.
 Unlike cassette tape recording, you cannot record over old tracks on an MD.
- Changing in sound volume and quality on this product during recording does not affect the recorded sound.
- Sound from a CD is recorded as digital signals to an MD. Sound from the radio or AUX is converted from analog signals to digital signals during recording.
- When you record a disc, track marks are automatically inserted between tracks. However, track marks may not be inserted when a DVD VIDEO or DVD AUDIO is recorded.

Recording Sound from Radio, Cassette Tape or Other Equipment

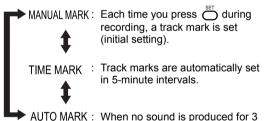
- The recorded sound level is automatically adjusted.
- Sound-synchronized recording is employed for recording sound from other equipment (AUX).
 With sound-synchronized recording, this product automatically identifies sound signals from the sound source and starts recording. When sound from the sound source pauses for 30 or more seconds, this product automatically quits recording. The blank time between the last recorded track and the next recorded track is approximately 2 seconds.

1 Select a sound source.

Sound source	Operation
Radio broadcast Select the radio station whose broads to cast you want to record (1237 page 20).	
Cassette tape playback	Insert a cassette tape for playback, press , and then press . Press to select the reverse mode when necessary.
Sound from other equip- ment (AUX/ AUX-DIGITAL)	Press repeatedly to select AUX or AUX-DIGITAL, and prepare playback on the other equipment (

2 Insert an MD for recording.

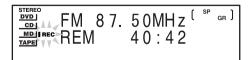
- Confirm the MDLP, "LP: " indicator and group recording settings. (pages 51 and 53)
- Close the write protect knob on the MD (page 75).
- 3 Hold down on the main unit for approximately 4 seconds to display the track mark options.
- 4 While the track mark options are displayed, press (→ PREVIOUS NEXT → TO SELECT A track mark option.
 - Each time you press PREVIOUS NEXT Phone the display toggles as follows.



or more seconds, a track mark is automatically set. You can also insert a track mark by pressing

5 Press on the main unit.

Example: Display while FM radio broadcast is recorded



When recording the sound from other equipment, wait until "AUX → MD" appears, and then start playback of the connected equipment. Recording automatically starts when sound is input to the main unit.

You can also start recording by pressing



With this method, even when sound from the connected equipment pauses for 30 or more seconds, the main unit does not automatically quit recording.

Quitting Recording

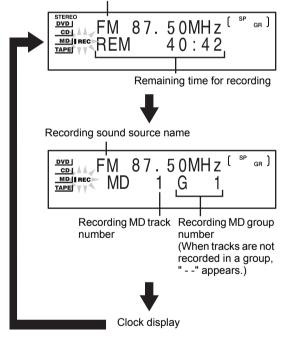
Press ⊚ ■ ⊙.

Changing the display in the display window during recording

Press DISP/CHARA

• Each time you press on the display toggles as follows.

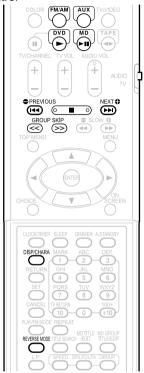
Recording sound source name



Main unit



Remote control



NOTE

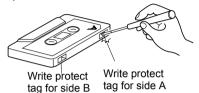
- · The sound input level during recording is automatically adjusted.
- · When you record tracks from a disc or MD, a 4second blank is inserted between tracks in the recording. You can record tracks with no blank time. (P page 56)

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.

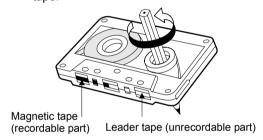
Preventing recorded sound from being erased

- 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.



Insert a cassette tape for record-

• Before inserting the cassette tape, wind the tape past the leader part of the cassette



Press to select the reverse mode.

• Each time you press , the display toggles as follows.



both sides. · You can change the reverse mode during recording.

3 Select a sound source for recording.

 Before selecting a sound source, make sure to stop a disc and MD.

Sound source	Operation
Disc	Press , and then press .
MD	Press (m), and then press (.
Radio broad- cast	Select the radio station whose broadcast you want to record (age 20).
Sound from other equip- ment (AUX/ AUX-DIGTAL)	Press repeatedly to select AUX or AUX-DIGITAL, and prepare playback on the other equipment (page 45).

4 Press on the main unit.

Example: Display while CD sound is recorded



- When you record from a disc or MD, 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 19).

Quitting Recording

Press • • •.

Recording Only One Track from a Disc or MD

(Excluding DVD VIDEOs)

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

 Pressing 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 or MD

(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 Or

■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 OF ► OF SEXT OF SEX

Program Recording from a Disc or MD

Before proceeding to step 4, program the tracks you want to record (

Recording with No Blank Time between Tracks

Before proceeding to step 4, play back a disc or MD, pause the playback, and then press for 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.

Changing the display in the display window during recording

Press DISP/CHARA

- Each time you press of the display toggles as follows.
- ■While tracks from a disc or MD are being recorded DVD, CD or MD → TAPE CD CDI ,0:00:10. TAPE | REC **▶** ₩ Elapsed playing time ■While a radio broadcast (FM/AM) is being recorded FM or AM → TAPE FΜ TAPE REC FM 87 50MHZ, Frequency ■While sound from other equipment (AUX) is being recorded AUX → TAPE MD1 AA TAPE | REC



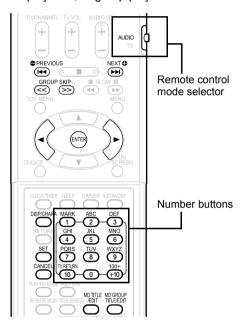
Clock display

- If the cassette tape reverses direction while a track is being recorded from a disc or MD, 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.
- Before recording a long track from an MD, such as a recorded concert, using one return recording, use the divide function to divide the track into sections equal to the length of one side of the cassette tape. (pp page 32)

Giving (Editing) Titles

Things You Should Know about Editing

- You cannot edit an MD while its write protect knob is open (property page 75). When you attempt to edit a protected MD, "DISC PROTECTED" appears.
- When you finish editing, "EDITING" appears, then "WRITING" flashes and the edited setting is recorded to the MD.
- While "WRITING" is displayed, be careful not to bump or sway the main unit. Such movement may interfere with MD playback.
- You cannot edit an MD during program playback, random playback, or group playback.



NOTE

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



Giving (Editing) Titles

You can give titles to an MD (disc), tracks and groups.

- ■While the track or group to which you want to give a title is being played back
- 1 Set the remote control mode selector to AUDIO.



2 Display the title editing mode.

For editing an MD (disc) title or track titles

• Press oto display the title editing mode.

1 TITLE? YES?→SET

- To edit a disc title, press PREVIOUS repeatedly to display "DISC TITLE?". You can also display "DISC TITLE?" by pressing while the disc is stopped.
- You can also select track number with

 PREVIOUS OF (FF).

For editing group titles

Press twice to display the group title editing mode.



- You can also select a group number with GROUP SKIP OF SKIP (>>).
- **3** Press ^{SET}.

Character entry position (flashing)

A track number appears for entering a track title, or "GR" and a group number appear for entering a group title.

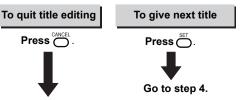


Available character types:

- [] indicates the selected character type.
- [A]:Uppercase characters or symbols
- [a]:Lowercase characters or symbols
- [1]:Numerical characters

4 Enter a title using the number buttons.

- For entering a title, refer to "Entering Titles" (Page page 59).
- 5 Press enter.
 - The entered title is given to an MD, track or group.



(Continued on next page)

6 Press ⊚ on the main unit to eject the MD.

NOTE

 Number of characters that can be entered to an MD You can enter up to 1 792 characters to each MD, with up to 61 characters to each track.
 However, the actual number of characters that you can enter is less than the number indicated here because of restrictions of the MD writing method.

Spaces are counted as characters. When you use long-play stereo recording (LP2 or LP4), the larger the number of tracks is, the smaller the number of characters that you can enter, because "LP:" and 4 spaces are automatically added to each track.

You can set this product so that "LP: " is not added to tracks. (Page page 53)

Example: When editing 120 tracks recorded using long-play stereo recording to an MD, you can enter 10 characters to each track.

- You cannot edit a title consisting of 62 or more characters. When you want to edit a title containing 62 or more characters, edit the title on the equipment on which the title was entered.
- · You can set a title during recording.
 - While recording from a CD (except when recording only one track from a CD), you can enter up to 16 track titles before recording finishes.
 - If you do not press before recording finishes, the entered titles are not stored.
 - During group recording, you can enter titles for the group.

Entering Titles

Example: To enter "F"

- 1) Press OBSPICHARA repeatedly until [] appears on "A"
- 2) Press $\stackrel{\text{DEF}}{\bigcirc}$ repeatedly to display "F".

Character entry position (flashing)



Available character types:

- [] indicates the selected character type.
- [A]:Uppercase characters or symbols
- [a]:Lowercase characters or symbols
- [1]:Numerical characters
- Several characters are assigned to one button.
 Press the button repeatedly until the desired character is displayed.
- For the available characters, refer to "Available Characters" (on the right).

To move the character entry position

• Press or >.

• When you want to enter "NO", "TV" or two characters which are assigned to one button, enter the first character, press to move the character entry position to the right, and then enter the second character.

To erase a character

• Move the character entry position to the character you want to erase, and press CANCEL.

To enter a space

Select the space from "Symbol" (The chart below). You can also enter a space at the end of a title by pressing .

To quit title entry

Press or The entered titles are not stored.

Output

Description

Stored.

Available Characters

Button	Uppercase character	Lowercase character	Numerical character
MARK 1	Symbol*	Symbol*	1
ABC 2	ABC	abc	2
DEF 3	DEF	def	3
GHI 4	GHI	ghi	4
JKL 5	JKL	jkl	5
MNO 6	MNO	mno	6
PQRS 7	PQRS	pqrs	7
TUV 8	TUV	tuv	8
WXYZ 9	WXYZ	wxyz	9
0			0

*Available symbols

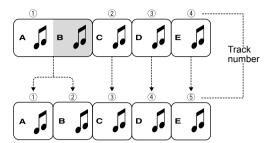
	Space	;	!	,,	#	\$	%	&	,	()	*	+
,	_		7	:	;	<	=	>	?	@		`	

Editing Tracks

For the locations of remote control buttons, refer to page 58.

Dividing a Track into Two Tracks (DIVIDE)

Example: Dividing a tune into tune A and tune B



■While the track you want to divide is being played back

repeatedly to select "DIVIDE?".

- Press O
 - You can also select the track number with $\stackrel{\P \text{PREVIOUS}}{\longleftarrow}, \stackrel{\text{NEXT} \Phi}{\longleftarrow} \text{ or the number buttons. Refer to}$ "Using the number buttons" (Propage 17).
- Press to specify the dividing point.
 - This product repeatedly plays back the 4 seconds of sound immediately following the dividing point.

"POSIT." stands for "POSITION".



- · When the dividing point does not have to be adjusted, proceed to step 5.
- When you want to adjust the dividing point, proceed to step 4.

- Press Previous or PREXT OF PREVIOUS OF PREXT OF PREXT OF PREVIOUS OF PREXT OF PREXT
 - · You can adjust the dividing point within the range of -128 to +128 position (approximately -8 to +8 seconds in SP mode).
- Press . 5

<DIVIDE> YES?→ENTER

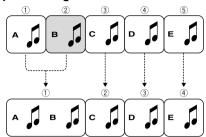
Press (ENTER)

- During editing, you can return to the previous step by pressing CANCEL. You can quit the editing operation by pressing .
- You cannot divide a track in an MD containing 254 or more tracks. When you press in step 3, "DISC FULL" appears.
- · When you divide a track that has a title, the title is added to both divided tracks.

Joining Tracks (JOIN)

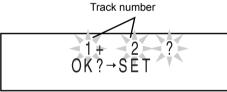
You can join two adjacent tracks into one track.

Example: Joining tune A and tune B



- ■While the second track (track 2 in the example shown above) to which you want to join the first track is being played back
- 1 Press repeatedly to select "JOIN?".

2 Press .



- You can also select a track number with

 PREVIOUS, NEXT ⊕ or the number buttons. Refer to

 "Using the number buttons" (

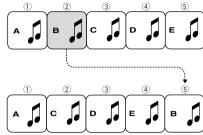
 page 17).
- 3 Press
- 4 Press enter).

NOTE

- During editing, you can return to the previous step by pressing $\bigcap_{\substack{\text{NOTITLE}\\\text{EDIT}}}^{\text{CANCEL}}$. You can quit the editing operation by pressing $\bigcap_{\substack{\text{NOTITLE}\\\text{EDIT}}}$.
- You cannot join tracks that have different MDLP modes (SP/LP2/LP4), or tracks that have different recording types (digital/analog). If you attempt to join such tracks, "CANNOT JOIN" appears.
- When you join two tracks that have titles, the title
 of the first track remains as the title of the joined
 track.

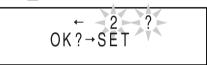
Moving a Track (MOVE)

Example: Moving tune B



- ■While the track you want to move (track 2 in the example shown above) is being played back
- 1 Press repeatedly to select "MOVE?".

2 Press .



- You can also select a track number with

 PREVIOUS, NEXT Or the number buttons. Refer to

 "Using the number buttons" (

 page 17).
- Press .
- 4 Press or Deprevious or Deprevious or Deprevious to select the track number to which you want to move the specified track.

 (Track 5 is selected in the example shown above)

- You can also select a track number with the number buttons. Refer to "Using the number buttons" (P page 17).
- When you move a track to a track number which is registered in a group, the track is registered in the group. When you move a track which is registered in a group to a track number which is not registered in a group, the track is removed from the group registration
- 5 Press
- 6 Press

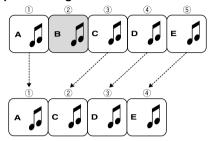
NOTE

• During editing, you can return to the previous step by pressing $\bigcap_{\mathbb{R}^{DT}}^{CANCEL}$. You can quit the editing operation by pressing $\bigcap_{\mathbb{R}^{DT}}^{NOTTRE}$.

Erasing a Track (ERASE)

Used frequently

Example: Erasing tune B



CAUTION

- Once you erase a track, you cannot retrieve it.
 Before erasing a track, confirm that you no longer need it.
- ■While the track you want to erase (track 2 in the example shown above) is being played back
- 1 Press repeatedly to select "ERASE?".

2 Press .

- You can also select a track number with
 PREVIOUS, NEXT or the number buttons. Refer to
 "Using the number buttons" (Property page 17).
- 3 Press .
 - " \(\sigma\)" is added in front of the selected track number.
 - When you select a wrong track, press odelete " \sqrt{".
 - You can select up to 15 tracks to be erased with ⊕PREVIOUS, NEXT ⊕ or the number buttons, and SET. Refer to "Using the number buttons" (

 □ page 17).

- 4 Press even.
- 5 Confirm that you no longer need the tracks, and then press (ATE).

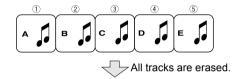
NOTE

• During editing, you can return to the previous step by pressing CANCEL . You can quit the editing operation by pressing

.

Erasing All Tracks (ALL ERASE)

Used frequently



BLANK DISC

CAUTION

- Once you erase a track, you cannot retrieve it. Before erasing a track, confirm that you no longer need it.
- 1 Press repeatedly to select "ALL ERASE?".

ALL ERASE? YES?→SET

- 2 Press .
- 3 Confirm that you no longer need all tracks, and then press [NTE].

NOTE

You can quit the editing operation by pressing

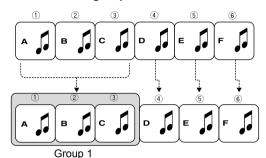
Editing Tracks by Group

You can sort tracks into 99 groups maximum.

Forming a Group (FORM GR)

You can group tracks together. A sequence of tracks that is not registered in any group can be grouped.

Example: Forming tune A, tune B and tune C into a group



■While the track which you want to specify as the first in the group (track 1 in the example shown above) is being played back

1 Press repeatedly to select "FORM GR?".

• "GR" stands for "GROUP".

2 Press .

The first track number in the group



• You can also select a track number with

• PREVIOUS NEXT or the number buttons. Refer to

"Using the number buttons" () page 17).

3 Press .

4 Press or Depth to select the track number which you want to specify as the last in the group.

(Track number 3 is selected in the example shown on the left.)

The last track number in the group



 You can also select a track number with the number buttons. Refer to "Using the number buttons" (page 17).

5 Press .

6 Press enter.

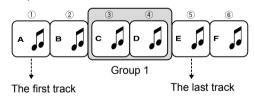
NOTE

• During editing, you can return to the previous step by pressing $\bigcap_{\text{MOGROUP}}^{\text{CANCEL}}$. You can quit the editing operation

by pressing TITLE/EDIT .

 If you select a track in another group, "GROUP TRACK" appears and you cannot proceed to the next step.

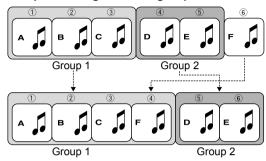
 If you select a sequence including a track that is registered in another group, "CANNOT FORM!" appears and you cannot proceed to the next step.



Adding a Track to a Group (ENTRY GR)

You can add a track to the specified group as the last track of the group.

Example: Adding tune F to group 1



- ■While the track which you want to add to a group (track 6 in the example shown above) is being playeds back
- 1 Press repeatedly to select "ENTRY GR?".
- 2 Press .

Track number



- You can also select a track number with

 PREVIOUS, NEXT Or the number buttons. Refer to

 "Using the number buttons" (F) page 17).
- 3 Press ^{SET}.

4 Press or or to select the group to which you want to add the track.

(Group 1 is selected in the example shown above)

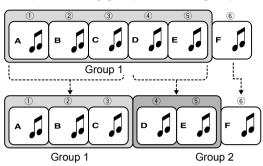
- 5 Press
- 6 Press (NTER).

NOTE

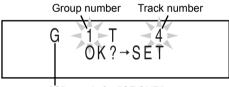
- by pressing .
 If you select a track already belonging to the group, "CANNOT ENTRY!" appears and you cannot proceed to the next step.

Dividing a Group into Two Groups (DIVIDE GR)

Example: Dividing group 1 into two groups



- ■While the track which you want to specify as the first in the second group (track 4 in the example shown above) is being played back
- 1 Press repeatedly to select "DIVIDE GR?".
- 2 Press .



- "G" stands for "GROUP".
- You can also select a track number with

 PREVIOUS, NEXT or the number buttons. Refer to

 "Using the number buttons" (

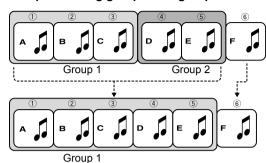
 page 17).
- You can also select a group number with GROUP SKIP Or SKIP Or SKIP Or
- 3 Press .
- 4 Press enter).

- During editing, you can return to the previous step by pressing CANCEL. You can quit the editing operation by pressing CO.
- If you select the first track in the group or a track not belonging to the group, you cannot proceed to the next step.
- When you divide a group that has a title, the same title is given to both divided sections.

Joining Groups (JOIN GR)

You can join two adjacent groups.

Example: Joining group 1 and group 2

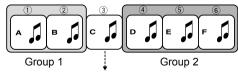


- ■While the track in the second group to which you want to join the first group (group 2 in the example shown above) is being played back
- 1 Press repeatedly to select "JOIN GR?".
- 2 Press ^{SET}.

- Two adjacent group numbers appear. When no group is formed in the MD, "--" appears.
- 3 Press .
- 4 Press ENTER.

NOTE

- During editing, you can return to the previous step by pressing $\bigcap_{\text{MURREDIP}}^{\text{CANCEL}}$. You can quit the editing operation
- by pressing ______.
 You cannot join two groups separated by a track not belonging to either group. "CANNOT JOIN" appears, and display returns to the previous step.

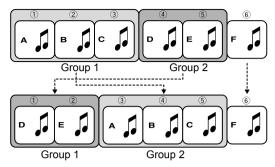


Track not belonging to either group

 When you join two groups that have titles, the title of the first group remains as the title of the joined group.

Moving a Group (MOVE GR)

Example: Moving group 2



- ■While a track in the group you want to move (group 2 in the example shown above) is being played back
- 1 Press repeatedly to select "MOVE GR?".
- 2 Press .

- You can also select a group number with GROUP SKIP OF SKIP O
- 3 Press .
- 4 Press or or SKIP to select the group number to which you want to move the specified group.

 (Group 1 is selected in the example shown above)

- 5 Press .
- 6 Press (ENTER).

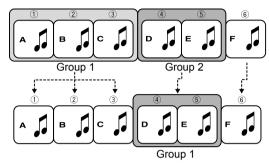
NOTE

• During editing, you can return to the previous step by pressing CANCEL. You can quit the editing operation by pressing THEEDIT .

Canceling a Group (UNGROUP/UNGR ALL)

Canceling a specified group (UNGROUP)

Example: Canceling group 1



- ■While a track in the group you want to cancel (group 1 in the example shown above) is being played back
- 1 Press repeatedly to select "UNGROUP?".
- 2 Press .

Example: When you want to cancel group 1



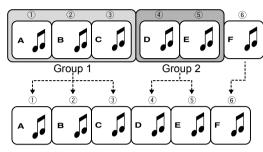
- 3 Press 💍
- 4 Press (ENTER)

NOTE

• During editing, you can return to the previous step by pressing CANCEL. You can quit the editing operation by pressing .

Canceling all groups (UNGR ALL)

Example: Canceling all groups



- 1 Press repeatedly to select "UNGR ALL?".
 - "UNGR" stands for "UNGROUP".
- 2 Press ^{SET}.
- 3 Press enter.

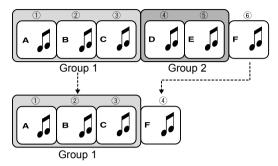
NOTE

You can quit the editing operation by pressing
 Output
 Description:
 Ou

Erasing a Group (ERASE GR)

You can erase a group including all tracks in the group.

Example: Erasing group 2



CAUTION

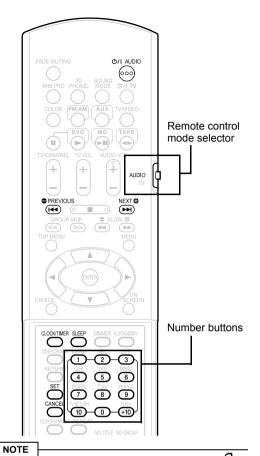
- Once you erase a track, you cannot retrieve it.
 Before erasing a track, confirm that you no longer need it.
- ■While a track in the group you want to erase (group 2 in the example shown above) is being played back
- 1 Press repeatedly to select "ERASE GR?".
- 2 Press .

- You can also select a group number with GROUP SKIP OF SKIP O
- 3 Press .
- 4 Confirm that you no longer need the tracks, and then press (NTEF).

NOTE

• During editing, you can return to the previous step by pressing $\bigcap_{\text{III} \in \text{Edit}}^{\text{CANCEL}}$. You can quit the editing operation by pressing $\bigcap_{\text{III} \in \text{Edit}}^{\text{MD GROUP}}$.

Editing MDs/Convenient Functions



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

TV

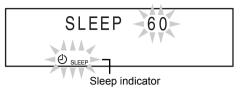
Sleep Timer

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

Press .

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

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 , "CLOCK ADJUST!" appears.

Changing the sleep timer setting

• Press repeatedly to select the time again.

Confirming the sleep timer setting (remaining time)

• With the sleep timer activated, press once.

Recording Timer

You can use the recording timer function to record FM/AM broadcasts or sound from other equipment to an MD or cassette tape.

You can enter up to three timer settings in total for the recording timer and the playback timer (page 70).

NOTE

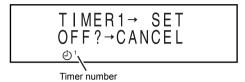
• Timer settings remain unchanged until the timer is replaced by new setting.

1 Prepare to record.

-	
Radio	Preset the radio station whose broadcast you want to record. (From page 21)
Other equipment	Follow the operation manual for the equipment.
MD recording	Insert an MD. (P page 46)
Cassette tape recording	Insert a cassette tape. (

Press repeatedly to select "TIMER1", "TIMER2" or "TIMER3".

Example: When "TIMER1" is selected



3 Press .

4 Press PREVIOUS, NEXT OF Or 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" (P page 17).
- For setting the clock, refer to "Setting the Clock" (page 17).

Entering the "hour" $\rightarrow \stackrel{\mathbb{SET}}{\longrightarrow} \rightarrow$ Entering the "minute" $\rightarrow \stackrel{\mathbb{SET}}{\longrightarrow}$

Press ⊕PREVIOUS or → to select "ONCE" or "EVERYDAY".

ONCE : The recording timer works

once.

EVERYDAY: The recording timer works every day.

6 Press .

7 Press PREVIOUS or I to select "REC TIMER".

• "REC" stands for "Recording".

8 Press .

9 Press or or or to select the combination of a sound source and recording medium.

Example: To record an FM broadcast to an MD



- 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.
- "AUX-D" stands for "AUX-DIGITAL".
- ■When you want to record an FM/AM radio broadcast
 - Press , and then press , 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" (Pressource)

10 Press $\stackrel{\text{\tiny SET}}{\bigcirc}$.

- When you use an MD as the recording medium, proceed to step 11.
- When you use a cassette tape as the recording medium, the settings appear in the display window. Confirm the settings, and then proceed to step 13.
- 11 Press PREVIOUS or PREVIOUS or PREVIOUS to select the MDLP mode (

 → page 51).
- 12 Press .
 - The settings appear in the display window.
- 13 When the main unit is on, press

to turn off the main unit.

SEE	YOU
Ů¹ REC	
\A/bila tha maaamdin	a times is functioning

- 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.

- During operation, you can return to the previous step by pressing CANCEL. You can quit the recording timer settings by pressing CANCEL. The settings are not stored.
- When you want to change the track mark options, make the change before or after setting the recording timer. (123 step 3 and 4 on page 54)

Canceling the recording timer

In step 2 on page 69, select the timer number you want to cancel, and then press $\overset{\text{\tiny CANCEL}}{\bigcirc}$.

Even when you cancel the recording timer, the setting remains stored.

Activating the recording timer again

In step 2 on page 69, select the timer number you want to activate, and then press 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.

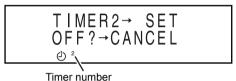
Playback Timer

1 Prepare the sound source you want to play back.

Disc	Make sure that a disc is loaded. (I → page 22)
MD	Insert an MD. (Page 46)
Cassette tape	Insert a cassette tape. (P page 43)
Radio	Preset the radio station whose broadcast you want to listen to. (Frame Page 21)
Other equipment	Follow the operation manual for the equipment.

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

Example: When "TIMER2" is selected



- **3** Press ^{SET}.
- 4 Press PREVIOUS, NEXT OF OT 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 17).
- For setting the clock, refer to "Setting the Clock" (P page 17).

Entering the "hour" $\rightarrow \stackrel{\text{SET}}{\longrightarrow} \rightarrow$ Entering the "minute" $\rightarrow \stackrel{\text{SET}}{\longrightarrow}$

Fress ⊕PREVIOUS or NEXT to select "ONCE" or "EVERYDAY".

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

6 Press .

7 Press ♣PREVIOUS or ♠ to select "PLAY TIMER".

(Continued on next page)

8 Press .

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

Example: When you want to listen to an AM broadcast



- When you want to listen to sound from other equipment, you cannot use the playback timer function to start playback on any equipment other than this product.
- You cannot use the playback timer function together with program playback, repeat playback, random playback, or group playback of a disc or MD.
- ■When you want to listen to an FM/AM radio broadcast
 - (With "FM" or "AM" selected) Press on the number buttons to select the preset number of the radio station whose broadcast you want to listen to (Let page 21). Refer to "Using the number buttons" (Let page 17).
- ■When you want to play back a DVD VIDEO or DVD AUDIO
 - (With "DVD/CD" selected) Press 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, SVCD or MD
 - (With "DVD/CD" selected) Press 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" (Propage 17). 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 , press PREVIOUS, NEXT or the number buttons to select the group number (G) to be played back, press , 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" (Previous page 17).

- 10 Press .
- 11 Press PREVIOUS or to adjust the playback volume.
- **12** Press ^{SET}.
 - The settings appear in the display window.
- 13 When the main unit is turned on,

press oo to turn off the main unit.

SEE YOU

• 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 COCCOTINER. 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 70, select the timer number you want to cancel, and then press CANCEL.

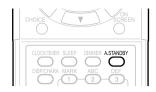
Even when you cancel the playback timer, the setting remains stored.

Activating the playback timer again

In step 2 on page 70, select the timer number you want to activate, and then press repeatedly until all of the setting procedure finishes. Then turn off the main unit.

- 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.

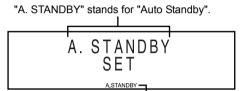
Auto Standby



If no sound is produced for 3 minutes when a sound source other than the FM/AM radio is selected, the main unit automatically turns off.

■When a sound source other than the FM/ AM radio is selected

Press A.STANDBY.



Auto standby indicator

Auto standby performance

While a disc, MD, or cassette tape is being played back or recorded:

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.

While you are listening to sound from other equipment:

When no sound is produced, 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.
"A. STANDBY OFF" indicator starts to flash 20 seconds before the main unit is to turn off.

Canceling auto standby

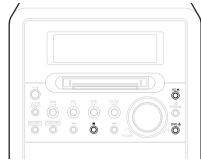
Press once again.

A. STANDBY CANCEL

NOTE

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

Disc/MD Ejection Lock



You can prohibit ejection of a disc and MD.

■When the main unit is turned off

While holding down o, press on the main unit.



Even if you press on on the disc or MD does not come out.

In addition, when you press of or of, while the main unit is turned off, "LOCKED" appears in the display window and the main unit does not turn on.

Canceling the disc/MD ejection lock

■When the main unit is turned off Carry out the operation explained above once again.

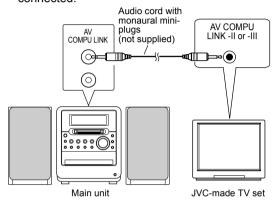
UNLOCKED

Using AV COMPU LINK

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

Connection and Setting

 Carefully read manuals of equipment to be connected.



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

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

Operations

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

- 1 Turn on the main power to the TV.
- 2 Insert a disc into the main unit.
- 3 Press 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.

Restrictions on MDs

Because the MD recording method has some restrictions, the following phenomena may occur. The phenomena are not a malfunction of this product.

Phenomenon	Possible cause	
"DISC FULL" appears even though recordable time as printed on the MD remains.	Regardless of remaining recordable time, MDs have a limit on the number of recordable tracks. You cannot record 255 or more tracks to an MD. (You can record up to 254 tracks to an MD.)	
"DISC FULL" appears even though the track numbers and recordable time have not reached the limit.	Repeated partial erasure and recording creates many blanks on an MD. When you record a track to such an MD, the track is split up and a small portion of the track is recorded into each blank.	
You cannot join tracks or groups.	When the number of such split portions increases, "DISC FULL" may appear. When a split portion is 8 or less seconds (in SP mode (the standard stereo	
The remaining recordable time does not increase even after you have erased some tracks.	recording mode)), you cannot join the track with another track. In addition, when you erase such portions, remaining recordable time does not increase. With a track split into many portions, fast forward or fast reverse may produce intermittent sound dropouts. You cannot join tracks that have different MDLP modes (SP/LP2/LP4).	
Sound drops out intermittently during fast forward or fast reverse.		
Recorded time plus remaining time is shorter than the total recordable time printed on the MD.	MD recording is possible only when there is a blank of consecutive 12 or more seconds (in SP mode) on the MD. Actual recording time is shortened on an MD that contains many blanks.	

Serial Copy Management System (SCMS)

The Serial Copy Management System protects copyright and allows only first-generation digital copies from the digitally recordable source.



CAUTION

• The SCMS does not permit you to record sound from a digitally recorded MD to other media as digital sound.

High Speed Copy Management System (HCMS)

You can record sound to an MD at a higher speed than normal recording. Therefore, restrictions are required in order to protect copyright.

When you use this product to record a track of a CD with the high speed recording function, this product does not then permit you to use the high speed recording function to record the same track of the CD to an MD within 74 minutes of the start of the first recording.

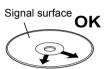
For instance, when you record the track 1 of a CD to an MD with the high speed recording function, you cannot record the track 1 again to an MD with the high speed recording function for 74 minutes after the first high speed recording started. In addition, you cannot record 101 or more tracks within 74 minutes with the high speed recording function.

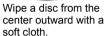
Handling Discs/MDs/Cassette Tapes

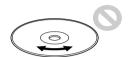
Handling discs

- 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







Scratches concentrated on a certain part cause sound dropout.

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

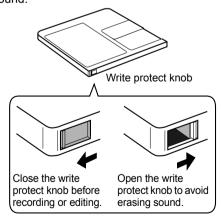
Handling MDs

 Do not open the shutter. Forcibly opening the shutter will break the MD.



Preventing the loss of important recorded sound

 A write protect knob is attached to an MD for preventing accidental erasure of recorded sound.



NOTE

 Do not put labels such as those indicating CD/track titles or other notes on any part of an MD other than the specified position. If you insert an MD with a label extending beyond the specified area, a label that is peeling off, or any other improperly attached label, it may damage the main unit.

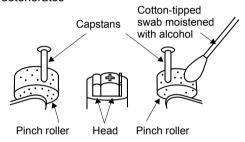
Handling cassette tapes

• 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.

MD/Disc Messages

MD message	Meaning	Possible solution	
CANNOT ENTRY!	The track has already been in the selected group.	Select an appropriate track. (page 64)	
CANNOT FORM!	There is a group between the selected tracks.	Select appropriate tracks. (₽ page 63)	
CANNOT GROUP!	There is no space for storing more group information. (Group information is stored in the same area as title information.)	You cannot form a group any more on the MD. (Erase the disc or track titles you do not need.)	
CANNOT JOIN	You are trying to join tracks that have different MDLP modes (SP/LP2/LP4), or tracks of only 8 or less seconds (in SP mode).	The MD system restricts such operation.	
CANNOT LISTEN	You are trying to adjust the volume during high speed recording.	You cannot listen to sound from a CD during high speed recording.	
CANNOT REC	You are trying to operate one-track-recording with a VCD or SVCD during PBC playback.	Set PBC to off (page 24).	
CANNOT TITLE	You are trying to enter a total of 1 793 or more characters to an MD.	You cannot enter more titles.	
READ ERROR	The main unit cannot read the MD.	Turn off the main unit. If the same message appears again, the MD may be damaged. Replace the MD.	
DISC FULL	There is no more space in the MD, or you are trying to record 255 or more tracks.	Replace the MD. (P page 74).	
DISC PROTECTED	The MD is write-protected.	Close the write protect knob on the MD. (Fragge 75).	
EMERGENCY STOP	A malfunction occurred during recording.	Press to quit recording, press to eject the MD, and then start recording again.	
GROUP FULL	You are trying to form 100 or more groups.	You can form up to 99 groups.	
GROUP TRACK	You are trying to form a group with a track already belonging to another group.	Select tracks that do not belong to any groups. (IPS page 63)	
LOAD ERROR	The MD is not properly loaded.	Insert the MD properly.	
MD NO DISC	No MD is loaded.	-	
NON-AUDIO CANNOT COPY	You are trying to record digital sound other than linear PCM from the connected equipment to an MD.	Set digital output to linear PCM on the connected digital equipment. (Refer to the instruction manual for the connected equipment for details.)	
PLAYBACK DISC	You are trying to edit or record to an MD which is designed only for playback.	Replace the MD with a recordable MD.	
SCMS CANNOT COPY	You are trying to make a digital audio duplication of a CD-R or CD-RW.	Operate analog recording at normal speed. () page 53)	
TRACK PROTECTED	You are trying to divide, join, or erase tracks which are recorded in the Net MD format.	Edit the tracks on equipment compatible with Net MD.	
	The tracks are write-protected by equipment other than this product.	Edit the tracks with the equipment on which the tracks were recorded.	
HCMS CANNOT COPY	You are trying to record a track with the high speed recording function within 74 minutes of starting to record the same track with the high speed recording function.	Wait 74 minutes, or change from high speed recording to normal speed recording.	
BLANK DISC	There are no tracks in the MD.	_	

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
	Headphones are connected.	Disconnect the headphone plug.	8
The clock display is flashing.	A power failure occurred or the power plug was disconnected.	Reset the clock.	17
Disc playback does not start.	The disc is upside down.	Place the disc on the disc tray with the letter-printed surface facing up.	22
	Moisture has condensed on the lens.	Leave the main unit turned on, wait for approximately 1 or 2 hours, and then operate the main unit.	3
A certain point cannot be played back properly.	The disc is scratched or dirty.	Clean or replace the disc.	75
	An error occurred on the MD.	Record to the MD again.	51
The volume of cassette tape playback is low.	The head or capstans are dirty.	Clean the head or capstans.	75
You cannot record an MD/cassette tape.	The MD/cassette tape is write-protected.	Cancel the write-protection.	55, 75
A radio broadcast cannot be received.	No antenna is connected.	Connect an antenna.	11
A whirring noise is produced.	The main unit is located close to a TV, computer, or other electric appliance.	Place the main unit away from a TV, computer, or other electric appliance.	3
You cannot set the timer.	You did not set the clock.	Set the clock.	17
The timer does not work.	The main unit is turned on.	After setting the timer, turn off the main unit.	69, 71
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.	17
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, 18

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

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

■MD/DVD receiver (CA-UXQD7)

Amplifier

Output power 20 W + 20 W at 4 Ω

(10% THD)

Input terminals

<Analog> AUX×1,

500 mV/47 k Ω :LEVEL1 250 mV/47 k Ω :LEVEL2

<Digital> Digital optical input × 1

-23 dBm to -15 dBm (Optical square terminal) (Compatible with frequency of

32 kHz, 44.1 kHz and

48 kHz)

Output terminals

<Analog> Speaker×1, 20 W/4 Ω

Impedance 4 Ω - 16 Ω

Headphone (×1), 25 mW/32 Ω

Impedance 16 Ω - 1 k Ω <Digital> DVD/CD optical input × 1

-23 dBm to -15 dBm

(Optical square terminal) <Other> AV COMPU LINK × 2 (\$\phi\$ 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)

MD recorder

Audio playing MiniDisc digital audio system

system

Pecording system

Recording system Magneto-optical overwrite

system

Reading system Non-contact, semiconductor

laser pickup

Recording/Playback time (when using an 80-minute MD)

SP: 80 minutes LP2: 160 minutes LP4: 320 minutes

Sampling frequency 44.1 kHz

Audio compression ATRAC (Adaptive TRansform

system Acoustic Coding)/ATRAC3

(MDLP)

Cassette deck

Frequency response

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

General

Power source AC 220 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.) 5.1 kg

■Speaker (SP-UXQD6)

System 3-way bass reflex type,

Magnetically shielded type

Speakers Woofer: 10 cm × 1 Midrange: 4 cm × 1

Tweeter: 1.5 cm × 1

Powerhandling 20 W

capacity Impedance 4 Ω

Frequency range 58 Hz - 40 kHz

Sound pressure 85 dB/W•m

level

Dimensions 135 mm (W) × 200.5 mm (H)

× 211.5 mm (D)

Mass (approx.) 2.0 kg

(1 unit)

■Micro component MD system (UX-QD7)

General

Dimensions 435 mm (W) × 200.5 mm (H) × 355 mm (D) Mass (approx.) 9.1 kg

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JVC